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TECHNICAL MEMORANDUM #2

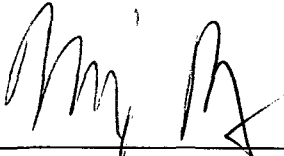
FOR
ROCKAWAY BOROUGH WELL FIELD SITE
OPERABLE UNIT #3
FOR PROPERTY OF
KLOCKNER & KLOCKNER
ROCKAWAY BOROUGH, NEW JERSEY


SUBMITTED TO
USEPA-REGION II
EMERGENCY & REMEDIAL RESPONSE DIVISION
NEW YORK, NEW YORK

SUBMITTED BY
THE WHITMAN COMPANIES, INC.
ON BEHALF OF KLOCKNER & KLOCKNER

IN ACCORDANCE WITH
ADMINISTRATIVE ORDER ON CONSENT
INDEX NO. II-CERCLA-95-0104

MAY 2000


MICHAEL N. METLITZ
PROJECT MANAGER


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May 18, 2000

Chief, New Jersey Superfund Branch I
Emergency & Remedial Response Division
U.S. Environmental Protection Agency, Region II
290 Broadway, Floor 19
New York, NY 10007

Attn: Brian Quinn, Project Manager

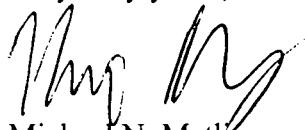
RE: Klockner & Klockner
Rockaway Borough Wellfield Superfund Site
Administrative Order on Consent ("AOC")
Index No. II-CERCLA-95-0104
Whitman Project #95-03-02

Dear Mr. Quinn:

In compliance with Paragraph 28 of the above AOC and Task I Item C of the Statement of Work, enclosed are two (2) copies of the Technical Memorandum for additional site characterization activities for the above referenced site. Klockner & Klockner would like to proceed with the proposed activities as soon as possible and would appreciate the U.S. Environmental Protection Agency's timely review of the Technical Memorandum.

Please call me if you have any questions or comments.

Very truly yours,


Michael N. Metlitz
Project Manager

CLC/dmw

cc: Janet McGillivray, Esquire, EPA
Dan Klockner, Klockner & Klockner
Nancy Eberhardt, Esquire, Riker Danzig, et. al.

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TECHNICAL MEMORANDUM #2

ROCKAWAY BOROUGH WELL FIELD SITE OPERABLE UNIT #3 FOR PROPERTY OF KLOCKNER & KLOCKNER ROCKAWAY BOROUGH, NEW JERSEY

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1. Analytical Data Sheets – February 8, 2000
2. Analytical Data Sheets – February 15, 2000 – Building 12
3. Analytical Data Sheets – February 15, 2000 – Building 13

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TECHNICAL MEMORANDUM #2
ROCKAWAY BOROUGH WELL FIELD SITE
OPERABLE UNIT #3
FOR PROPERTY OF
KLOCKNER & KLOCKNER
ROCKAWAY BOROUGH, NEW JERSEY

1.0 INTRODUCTION

This Technical Memorandum has been prepared by Whitman Companies, Inc. on behalf of Klockner & Klockner (Klockner) as part of the Remedial Investigation/ Feasibility Study (RI/FS) Work Plan. This Technical Memorandum was prepared in accordance with Chapter VIII, Paragraph 28 of the Administrative Order on Consent (AOC) entered into by Klockner and the United States Environmental Protection Agency (EPA) and **Task I, Item C** of the Statement of Work (SOW) (USEPA, 1995).

This Technical Memorandum was prepared to outline additional soil sampling required to characterize Operable Unit #3 at Block 5, Lots 1 and 6, and Block 7, Lots 7 and 8, in the Borough of Rockaway (Klockner Property).

2.0 SITE HISTORY

2.1 Klockner Property Location

The Klockner Property is located at the intersection of Stickle Avenue and Elm Street in the north end of the Borough of Rockaway in Morris County, New Jersey. The Klockner Property is a portion of the Rockaway Borough Well Field Site (Site), which itself encompasses approximately 2.1 square miles. The Rockaway Borough well field is located approximately 600 feet southwest of the Klockner Property. See Figure 1 for the Klockner Property location on a U.S.G.S. Dover, N.J. quadrangle. A site map of the Klockner Property is included as Figure 2.

The Klockner Property consists of two separate properties. One of the properties is located north of Stickle Avenue and is currently owned by Klockner. This portion of the Klockner Property Block 5, Lots 1 and 6, has been known for many years as the Building 12 Property, and will be referred to as such in this report. The second portion of the Klockner Property is located south of Stickle Avenue and consists of Block 7, Lots 7 and 8. This portion of the Klockner Property has

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been known as the Building 13 Property and will be referred to as such in this report. Lot 7 is currently owned by Norman Iverson and operated by F.G. Clover Co. Lot 8 is currently owned by Klockner and is used as parking for Building 12 tenants. However, Lot 8 of the Building 13 Property historically has been associated with Lot 7 and the operations thereon. Accordingly, Lot 8 will be discussed as part of the Building 13 Property.

The Building 12 Property consists of 1.34 acres. The majority (approximately 93%) of the Building 12 Property is covered by building structures and pavement. The building structure consists of approximately 50,000 square feet of one and two story space used for manufacturing, office space and storage. The Building 12 Property is bordered to the south by Stickle Avenue, to the east by Oak Street and residential housing, to the north by Ford Road and to the west by Elm Street.

Lot 7 of the Building 13 Property consists of approximately 1.07 acres, and Lot 8 consists of approximately 0.5 acres. There are two (2) building structures present on Lot 7 of the Building 13 Property. Lot 8 is a partially paved area with no structures. The building coverage of the Building 13 Property is approximately 12,400 square feet. Approximately 50% of Building 13 Property is covered by building structures and pavement. The Building 13 Property is bordered to the north by the Building 12 Property (across Stickle Avenue), to the west by residential properties (across Elm Street), to the south by residential property and to the east by a railroad line.

2.2 Site History

The Site is a municipal well field that serves approximately 10,000 people. The Rockaway Borough's three water supply wells (#1, 5 and 6) draw water from an unconsolidated glacial aquifer from a depth ranging from 54 to 84 feet below grade. The supply wells are located off of Union Street and are southwest of the Klockner Property.

Contamination of the Site groundwater was first discovered in 1979. The primary contaminants identified were Trichloroethylene (TCE) and Tetrachloroethylene (PCE). Several inorganic contaminants, including Chromium, Lead and Nickel, were also identified. In December 1982, the Site was placed on the EPA's National Priorities List of Superfund sites.

Following discovery of ground water contamination, NJDEP conducted an RI/FS (SAIC, 1986), which was known as Operable Unit 1 (OU1), and EPA conducted a second RI/FS (ICF, 1991a and b), which was known as Operable Unit 2 (OU2). Through these studies, the Klockner Property was identified as one of the potential source areas of the Site contamination.

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The investigation of soil and ground water contamination was initiated at the Building 12 portion of the Klockner Property in 1986 under New Jersey's Environmental Cleanup Responsibility Act (ECRA). The ECRA investigation was conducted under oversight of the New Jersey Department of Environmental Protection (NJDEP). Soil and ground water contamination was detected, consisting primarily of chlorinated volatile organic compounds. The Klockners withdrew from the ECRA program in 1990 but continued to investigate the source of TCE and PCE contamination in soil through January 1992.

The remediation of the plume of groundwater contamination originating from the Klockner Property area is being addressed by Thiokol Corporation pursuant to a Consent Decree entered into between it and EPA in 1994. An RI/FS of contaminated soils at the Klockner Property is being addressed by Klockner in accordance with the October 1995 AOC and SOW.

A detailed description of the site and surrounding areas and an analysis of existing data are included in the First Amended Summary Report, submitted to USEPA in May 1996.

3.0 SAMPLING OBJECTIVES

Objectives of the sampling effort detailed in this document are listed below:

1. Complete delineation of potential source areas identified through recent sampling activities conducted at the Building 12 Property. This will be accomplished by the installation of soil borings and the collection and analysis of soil samples.

In conjunction with previously collected data, the collected information will be used to:

- Conduct a Risk Assessment;
- Conduct an evaluation of potential remedial alternatives;
- Aid in estimating the volumes of impacted soil.

4.0 SAMPLING RESULTS AND PROPOSED ADDITIONAL SAMPLING

Sampling was conducted at the Klockner Property in accordance with the EPA Approved RI/FS Work Plan and Field Operations Plan (FOP). Sampling activities included soil sampling conducted February 8 and 15, 2000. The analytical results indicated that further sampling was necessary to fully characterize the site and delineate potential source areas.

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A summary of the areas requiring additional sampling is provided below. A detailed summary of the sample results was provided to EPA in the April 2000 Progress Report by Klockner. Soil sample locations are indicated on Figures 3 and 4. Proposed sample locations are indicated on Figures 4 and 5. The analytical results received for the February 2000 sampling activities are included as Tables 1 through 3. Proposed sample collection and analysis information is provided in Tables 4 through 6. Analytical data sheets are included as Attachments 1 and 2.

As further described below, certain samples collected near or at the property boundaries have shown contaminant concentrations above the New Jersey Soil Cleanup Criteria. Accordingly, in order to fully delineate potential source areas, samples must be collected from two (2) neighboring properties. Access has been requested from both property owners. Once access to these sites has been obtained, the sampling discussed herein will be commenced.

4.1 Building 12 – Alleyway

4.1.1 Results

This area included the alleyway, adjacent quonset hut, area between the alleyway and degreaser pit inside the building and western area of the building adjacent to the alleyway. The October 1998 soil gas and soil sampling results indicated the presence of Purgeable Halocarbons (PHAL) contamination in these areas.

Based on the October 1998 soil sample results, nine (9) additional delineation soil borings (SSAW-3, 9, 11 through 17) were sampled during February 2000 at the depths indicated on Table 4. Sample SSAW-D was collected as a duplicate of sample SSAW-16 for PHAL analysis. The sample depths were based on field observations, screening with a photoionization detector (PID) and previous sample results. The analytical results indicated the presence of TCE above or at its current New Jersey Impact to Ground Water Soil Cleanup Criteria (NJIGWSCC) of 1 mg/kg in six (6) additional shallow sample locations. Tetrachloroethene (PCE) was detected at and above its current New Jersey Residential Direct Contact Soil Cleanup Criteria (NJRDCCSCC) of 4 mg/kg and NJIGWSCC of 1 mg/kg in the two (2) shallow sample locations, SSAW-13 and SSAW-14. Cis-1,2-Dichloroethene (c-DCE) was detected in one (1) sample location, SSAW-3 above its current NJIGWSCC of 1 mg/kg. The analytical results are provided in Table 1. The TCE results are plotted on Figure 3.

4.1.2 Additional Sampling

Nine (9) additional soil boring locations (SSAW-18 through 26) are proposed for the Alleyway as shown on Figure 5. Samples will be collected at a shallow depth (<5 feet). The

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borings will be field screened and the interval exhibiting the highest PID reading will be selected for analysis. Samples will be analyzed for PHAL.

4.2 Building 12 – Scale Room

See sampling outlined for the Alleyway in 4.1.2.

4.3 Building 12 – Drum Storage Shed

4.3.1 Results

Based on the October 1998 soil sample results, nine (9) additional delineation soil samples (Tables 1 and 2) were collected during February 2000 from five (5) borings (SSFS-1, SSFS-3 through 6).

This area is located just northeast of the alleyway. Sample SSFS-1C, SSFS-3A, SSFS-3C, SSFS-4A, SSFS-5A and SSFS-6A were analyzed for Lead. Sample SSFS-D was collected as a duplicate of SSFS-6A. Samples SSFS-1D and SSFS-3B were analyzed for PHAL. The analytical results for PHAL were below the current NJRDCSCC and NJIGWSCC. The sample SSFS-3A Lead result exceeded the current NJRDCSCC of 400 mg/kg at a depth of 0-0.5 feet. This sample was located near the property boundary. Lead was detected below its current NJRDCSCC in the 2-2.5 feet sample collected at this location (Sample SSFS-3C). The TCE and Lead results are plotted on Figure 3.

4.3.2 Additional Sampling

Additional soil sampling will be conducted in the Drum Storage Shed Area to delineate the February 2000 sample results. Two (2) soil borings (SSFS-7 and 8) will be installed to a depth of 2.5 feet, on the neighboring property to the east of SSFS-3A (Figure 5) for horizontal delineation. Samples will be collected from a depth of 0-0.5 feet. The samples will be analyzed for Lead. An additional sample will be collected from a depth of 2 to 2.5 feet at the two (2) horizontal delineation sample locations. The samples will be analyzed for lead if it is detected at a concentration above its NJRDCSCC at the corresponding shallow sample depth.

4.4 Building 12 - Drum Storage in Alleyway

See sampling outlined for the Alleyway in 4.1.2.

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4.5 Building 12 – North Drum Storage Area

4.5.1 Results

Based on the October 1998 soil sample results, thirteen (13) additional delineation soil samples (Table 1) were collected during February 2000 from eight (8) borings (SSNDS-1 through 8). The samples were analyzed for PHAL. Sample SSNDS-D was collected as a duplicate of sample SSNDS-5 for PHAL analysis. The sample depths were based on field observations, screening with a photoionization detector (PID) and previous sample results. The analytical results indicated the presence of TCE above or at its current NJIGWSCC of 1 mg/kg in only two (2) shallow sample locations. These two (2) locations are near the property boundary. The TCE results are plotted on Figure 3.

4.5.2 Additional Sampling

A total of four (4) additional soil borings (SSNDS-3, 9 through 11) will be installed in the North Drum Storage Area (Figure 5). To delineate horizontally, two (2) borings (SSNDS-10 and SSNDS-11) will be installed on the neighboring property to the east and one (1) (SSNDS-9) on the neighboring property to the north of the SSNDS-3 and SSNDS-4 locations. Samples from these borings will be collected from two (2) depths (highest PID reading <2 feet below grade and 4.5 to 5 feet). Sample SSND-11 will be analyzed on a contingent basis dependent on the results of SSNDS-10. A vertical delineation sample will be collected at SSNDS-3 at a depth of 7 to 7.5 feet. The samples will be analyzed for PHAL.

4.6 Building 12 – Sump

See sampling outlined for the Alleyway in 4.1.2.

4.7 Building 13 - Fence Area

4.7.1 Results

Based on the October 1998 soil sample results, four (4) additional delineation soil borings were sampled during February 2000 at the depths indicated on Table 3. The samples were analyzed for PHAL. Sample SSFA-D was collected as a duplicate of sample SSFA-1 for PHAL analysis. PCE was detected slightly above its current NJIGWSCC of 1 mg/kg in the duplicate sample SSFA-D.

Based on this data, no further delineation is required for this area.

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4.7.2 Additional Sampling

Sample location SSFA-1/SSFA-D (Figure 4) will be resampled for PHAL at a depth of 5-5.5 feet. This sample will be collected to determine if PHAL are present above the NJIGWSCC.

5.0 SAMPLING EQUIPMENT

The procedures for soil sampling, handling and analysis that were approved in the June 1997 FOP will be utilized in the proposed round of soil sampling. Environmental Field Services, Inc. (EFS) will provide the GeoProbe direct push soil sampling services. STL Trent Envirotech (Envirotech Research, Inc.) will provide the analytical services.

6.0 QUALITY ASSURANCE

The Quality Assurance Project Plan (QAPP) previously approved in June 1997 will be utilized during this additional fieldwork. Mr. Glenn Pulliam of The Whitman Companies, Inc. has been assigned the task of assisting Richard Britton in conducting the QA/QC review. Mr. Pulliam has experience in QA/QC review under EPA REAC projects and has 6 years of experience.

7.0 HEALTH AND SAFETY PLAN

The Health and Safety Plan prepared and approved in June 1997 will be utilized for the additional fieldwork outlined in this Technical Memorandum.

8.0 REFERENCES

ICF Technology, Inc., 1991a. Remedial Investigation Report – Rockaway Borough Well Field Site (Draft Final). USEPA Contract No. 68-W8-0124, July 18, 1991.

ICF Technology, Inc., 1991b. Feasibility Study Report – Rockaway Borough Well Field Site (Draft Final). USEPA Contract No. 68-W8-0124, August, 1991.

Science Applications International Corporation, 1986. Draft Final Report – Remedial Investigation and Feasibility Study of Rockaway Borough Well Field Site, June 1986.

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United States Environmental Protection Agency, 1995. Administrative Order on Consent, Index No. II-CERCLA-95-104, between Klockner and Klockner and United States Environmental Protection Agency, Effective October 7, 1995.

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Klockner & Klockner
Summary of Purgeable Halocarbons
Results For Soil


[illegible]

☐ - Results above NJDEP Soil Cleanup Criteria
 NS - No Standard for Individual Contaminant
 ND - None Detected
 NA - Not Analyzed

TABLE 2

Klockner & Klockner Summary of Lead Results For Soil

Sample ID Lab Sample Number Sampling Date Sample Depth Units	NJDEP Residential Direct Contact Soil Cleanup Criteria mg/kg	NJDEP Non-Residential Direct Contact Soil Cleanup Criteria mg/kg	SSFS-1C 182787 02/08/00 2-2.5 mg/kg	SSFS-3A 183839 02/15/00 0-0.5 mg/kg	SSFS-3C 183841 02/15/00 2-2.5 mg/kg	SSFS-4A 182789 02/08/00 0-0.5 mg/kg	SSFS-5A 182791 02/08/00 0-0.5 mg/kg	SSFS-6A 182793 02/08/00 0-0.5 mg/kg	SSFS-D 182810 02/08/00 0-0.5 mg/kg
Lead	400	600	77.3	841	373	128	11.1	8.8	34.6

 - Results above NJDEP Soil Cleanup Criteria
 ND - None Detected

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TABLE 3

Klockner & Klockner
Building 13 - Fence Area
Summary of Purgeable Halocarbons
Results For Soil

Sample ID Lab Sample Number Sampling Date Sample Depth (feet) Units	NJDEP Residential Direct Contact Soil Cleanup Criteria mg/kg	NJDEP Non-Residential Direct Contact Soil Cleanup Criteria mg/kg	Impact to Ground Water Soil Cleanup Criteria mg/kg	SSFA-1 183826 02/15/00 5-5.5' mg/kg	SSFA-D 183827 02/15/00 5-5.5' mg/kg	SSFA-4A 183828 02/15/00 5-5.5' mg/kg	SSFA-4B 183829 02/15/00 7-7.5' mg/kg	SSFA-4C 183830 02/15/00 10-5-11' mg/kg
PHAL								
Dichlorodifluoromethane	NS	NS	NS	ND	ND	ND	ND	ND
Chloromethane	520	1000	10	ND	ND	ND	ND	ND
Vinyl Chloride	2	7	10	ND	ND	ND	ND	ND
Bromomethane	79	1000	1	ND	ND	ND	ND	ND
Chloroethane	NS	NS	NS	ND	ND	ND	ND	ND
Trichlorofluoromethane	NS	NS	NS	ND	ND	ND	ND	ND
1,1-Dichloroethene	8	150	10	ND	ND	ND	ND	ND
Methylene Chloride	49	210	1	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	1000	1000	50	ND	ND	ND	ND	ND
1,1-Dichloroethane	570	1000	10	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	79	1000	1	ND	ND	ND	ND	ND
Chloroform	19	28	1	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	210	1000	50	ND	ND	ND	ND	ND
Carbon Tetrachloride	2	4	1	ND	ND	ND	ND	ND
1,2-Dichloroethane	6	24	1	ND	ND	ND	ND	ND
Trichloroethene	23	54	1	ND	ND	ND	ND	ND
1,2-Dichloropropane	10	43	NS	ND	ND	ND	ND	ND
Bromodichloromethane	11	46	1	ND	ND	ND	ND	ND
2-Chloroethyl Vinyl Ether	NS	NS	NS	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	4	5	1	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	4	5	1	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	22	420	1	ND	ND	ND	ND	ND
Tetrachloroethene	4	6	1	ND	2.6	ND	ND	ND
Dibromochloromethane	110	1000	1	ND	ND	ND	ND	ND
Chlorobenzene	37	680	1	ND	ND	ND	ND	ND
Bromoform	86	370	1	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	34	70	1	ND	ND	ND	ND	ND
1,3 Dichlorobenzene	5100	10000	100	ND	ND	ND	ND	ND
1,4 Dichlorobenzene	570	10000	100	ND	ND	ND	ND	ND
1,2 Dichlorobenzene	5100	10000	50	ND	ND	ND	ND	ND
Total Confident Conc.				0	2.6	0	0	0

☐ - Results above NJDEP Soil Cleanup Criteria
 NS - No Standard for Individual Contaminant
 ND - None Detected

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TABLE 4
KLOCKNER PROPERTY
SUMMARY OF PROPOSED SOIL SAMPLING

AEC	Sample Designation ²	Sample Depth	Analytical Parameters
BUILDING 12 PROPERTY			
Alleyway ¹	SSAW-18	<5' FDH	PHAL
	SSAW-19	<5' FDH	PHAL
	SSAW-20	<5' FDH	PHAL
	SSAW-21	<5' FDH	PHAL
	SSAW-22	<5' FDH	PHAL
	SSAW-23	<5' FDH	PHAL
	SSAW-24	<5' FDH	PHAL
	SSAW-25	<5' FDH	PHAL
	SSAW-26	<5' FDH	PHAL
Drum Storage Shed	SSFS-7A	0-6" below pavement	Lead
	SSFS-7B	2-2.5'	Cont. Lead
	SSFS-8A	0-6" below pavement	Lead
	SSFS-8B	2-2.5'	Cont. Lead
North Drum Storage Area	SSNDS-3C	7-7.5'	PHAL
	SSNDS-9A	<2' FDH	PHAL
	SSNDS-9B	4.5-5'	PHAL
	SSNDS-10A	<2' FDH	PHAL
	SSNDS-10B	4.5-5'	PHAL
	SSNDS-11A	<2' FDH	Cont. PHAL
	SSNDS-11B	4.5-5'	Cont. PHAL
BUILDING 13 PROPERTY			
Fence Area	SSFA-1R	5-5.5'	PHAL

KEY

FDH - Field determined based on highest PID reading

<5' FDH - Sample to be collected from 6-inch interval with highest PID reading between grade and depth indicated

PHAL - GC Purgeable Halocarbons by EPA Method SW-846 8021

Cont. - Contingent sample

¹ - This area includes the Quonset Hut, the Scale Room and area between the Alleyway and Degreaser Pit

² - Sample designation identifies boring location and will include sample depth i.e. SSSAW-3 (5-5.5')

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TABLE 5
KLOCKNER PROPERTY
SUMMARY OF PRESERVATION METHODS, SAMPLE CONTAINERS,
HOLDING TIMES AND ANALYTICAL METHODS

Parameter	Sample Container	Sample Volume	Preservation	Maximum Holding Time*	Analytical Methodology
A. SOIL SAMPLE ANALYSIS					
GC Purgeable Halocarbons	40 ml volatile organic analysis glass vial	10g	25 ml methanol, 4°C	14 days	SW-846, 3rd edition, vol. 1-B; GC-8021
Lead	8 oz. glass container	5g	4°C	6 months	SW-846, 3rd edition, vol. 1-A; 6010 & 7000
C. WATER SAMPLE ANALYSIS					
GC Purgeable Halocarbons	3-40 ml organic analysis glass vials	40 ml	HCl, 4°C	14 days	EPA Method 601 (GC)
Lead	1,000 ml HDPE container	500 ml	HNO ₃ , 4°C	6 months	EPA Method 200 Series

* Holding time begins at time of sample collection

+ All chemical preservatives will be ultra-pure grade or better

Note: Sample containers will be provided by laboratories and will be pre-cleaned and certified in accordance with EPA protocol.

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TABLE 6
KLOCKNER PROPERTY
SUMMARY OF PROPOSED SAMPLING DUPLICATES AND FIELD BLANKS

Sample Media	Number of Samples	Duplicate	Field Blanks	Analytical Methodology
Soil Samples	15 to 17	1	1	PHAL
	2 to 4	1	1	Lead

KEY

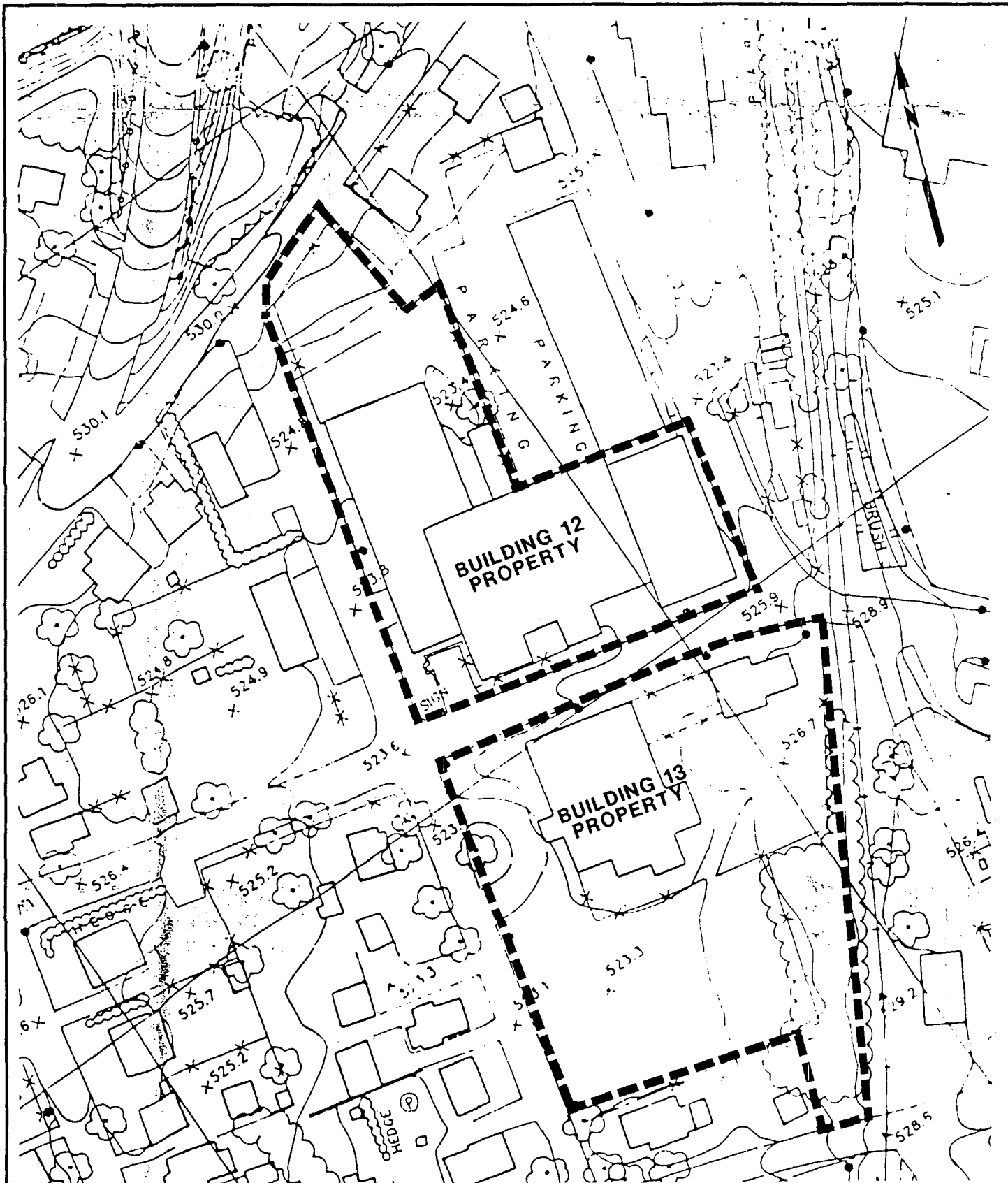
PHAL - Purgeable Halocarbons

Note: Trip blanks will be collected for PHAL analysis with each shipment of field samples.

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THE
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SOURCE: 301055

AERIAL SURVEY DATED JUNE 1994 PREPARED
BY ROBINSON AERIAL SURVEY'S INC. FOR
CONESTOGA-ROVERS & ASSOCIATES



THE
WHITMAN
Companies,
INC.

KLOCKNER & KLOCKNER PROPERTY
ROCKAWAY BOROUGH
MORRIS COUNTY, NJ

TOPOGRAPHY OF
KLOCKNER & KLOCKNER PROPERTY

ORIG. BY: MM

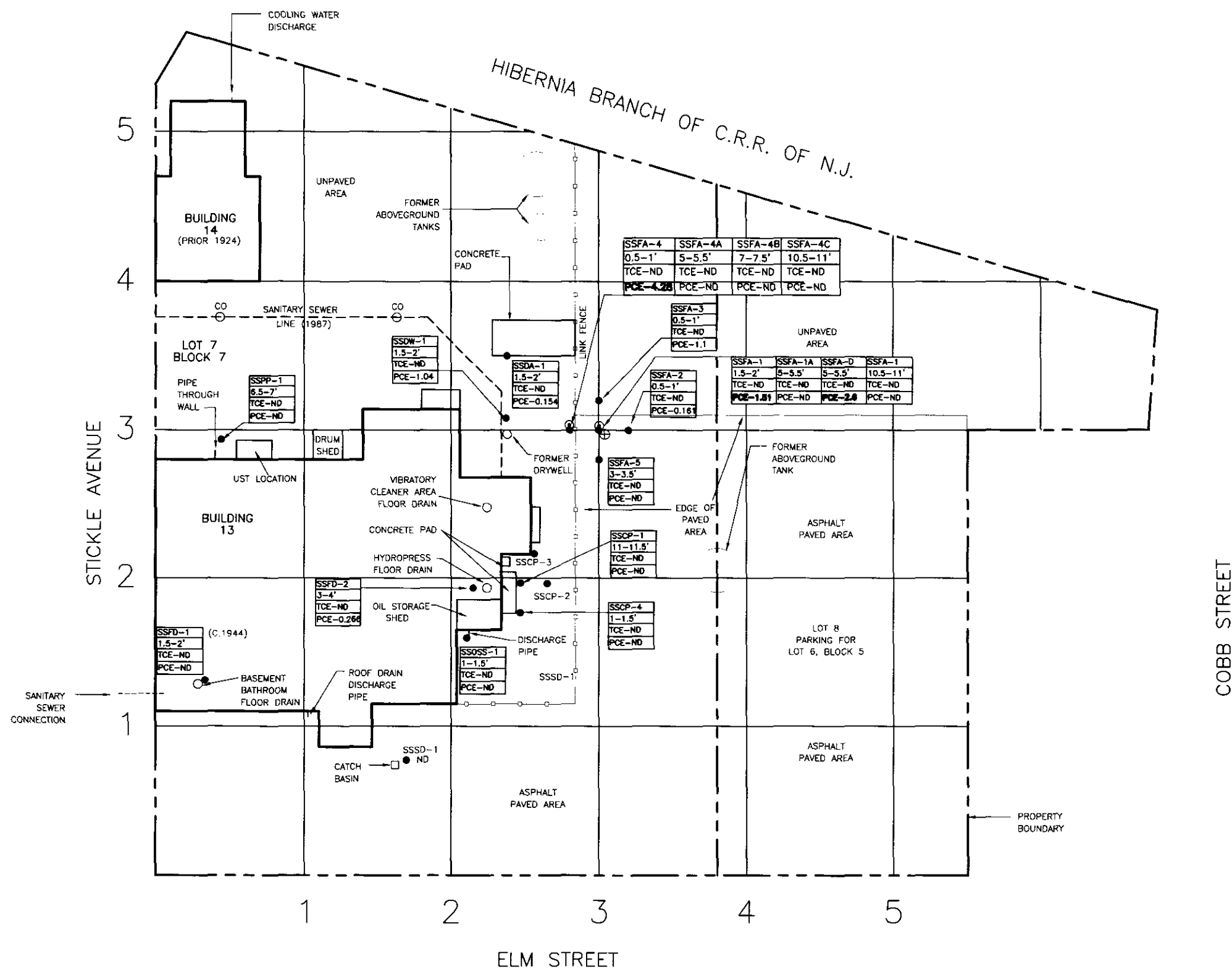
DWG. BY: *A. Villar*

CHK. BY: MM

DWG. #:

DATE: NOV. 1995

FIGURE: 2




- LEGEND**
- SSFA-4 - SOIL SAMPLE LOCATION
 - 4.28 PCE CONCENTRATION IN MG/KG
 - 0.5-1' SAMPLE DEPTH
 - ⊕ - PROPOSED SOIL SAMPLE LOCATION
 - AT 5 FOOT DEPTH
 - PCE - TETRACHLOROETHYLENE

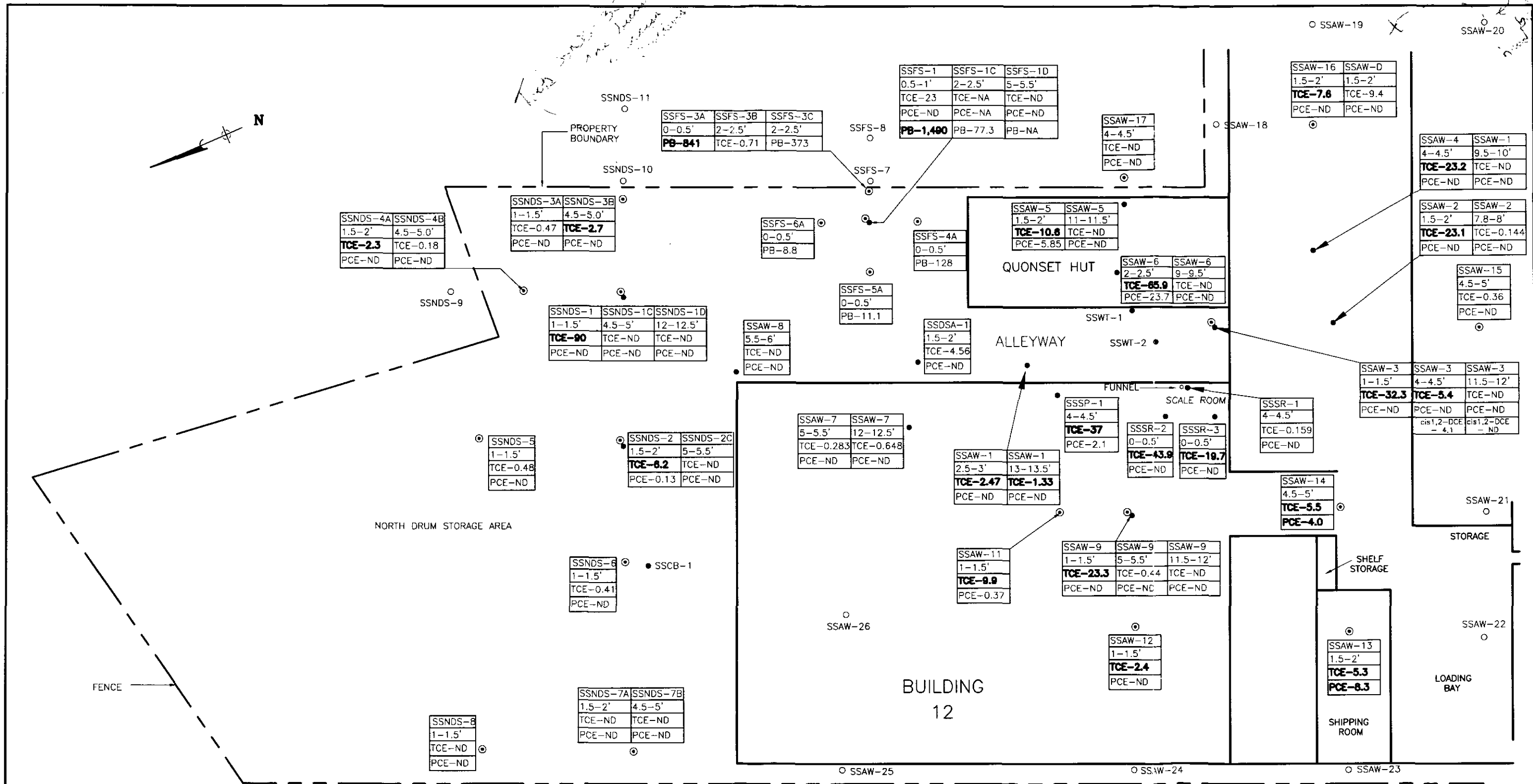
NOTE: RESULTS IN BOLD EXCEED NJDEP CRITERIA.

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SCALE



	KLOCKNER & KLOCKNER PROPERTY ROCKAWAY BOROUGH MORRIS COUNTY, NJ		
	FEBRUARY 2000 PCE SOIL SAMPLE RESULTS AND SAMPLE LOCATIONS BUILDING 13		
ORIG. BY: CC	DWG. BY: C&C	CHK. BY: CC	
DWG.#: 950302X4cc	DATE: APRIL 2000	FIGURE: 4	



301058

	KLOCKNER & KLOCKNER PROPERTY ROCKAWAY BOROUGH MORRIS COUNTY, NJ	
	SOIL SAMPLE RESULTS AND PROPOSED SAMPLE LOCATIONS BUILDING 12	
	ORIG. BY: CLC DWG. #: 950302N2	DWG. BY: CC DATE: APRIL 2000



TCE - TRICHLOROETHYLENE
 PCE - TETRACHLOROETHYLENE
 PB - LEAD
 NOTE:
 RESULTS IN BOLD EXCEED NJDEP IMPACT TO GROUND WATER
 SOIL CLEANUP CRITERIA OF 1mg/kg FOR TCE

301060

ATTACHMENT 1
ANALYTICAL DATA SHEETS
FEBRUARY 8, 2000

301061



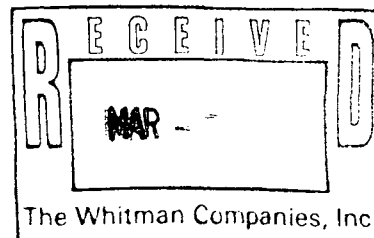
301062

STL Envirotech
777 New Durham Road
Edison, NJ 08817
Tel: (732) 549-3900
Fax: (732) 549-3679
www.stl-inc.com

February 28, 2000

The Whitman Companies, Inc.
44 West Ferris Street
East Brunswick, NJ 08816

Attention: Mr. Michael Metlitz



Re: Job No. X303 - Klockner & Klockner

Dear Mr. Metlitz:

Enclosed are the results you requested for the following sample(s) received at our laboratory on February 09, 2000:

<u>Lab No.</u>	<u>Client ID</u>	<u>Analysis Required</u>
182785	SSAW-9	Method 8021-Purgeable Halocarbons
182786	SSAW-11	Method 8021-Purgeable Halocarbons
182787	SSFS-1C	Pb
182788	SSFS-1D	Method 8021-Purgeable Halocarbons
182789	SSFS-4A	Pb
182791	SSFS-5A	Pb
182793	SSFS-6A	Pb
182795	SSNDS-1C	Method 8021-Purgeable Halocarbons
182796	SSNDS-1D	Method 8021-Purgeable Halocarbons
182797	SSNDS-2C	Method 8021-Purgeable Halocarbons
182798	SSNDS-3A	Method 8021-Purgeable Halocarbons
182799	SSNDS-3B	Method 8021-Purgeable Halocarbons
182800	SSNDS-4A	Method 8021-Purgeable Halocarbons
182801	SSNDS-4B	Method 8021-Purgeable Halocarbons
182802	SSNDS-5	Method 8021-Purgeable Halocarbons
182803	SSNDS-D	Method 8021-Purgeable Halocarbons
182804	SSNDS-6	Method 8021-Purgeable Halocarbons
182805	SSNDS-7A	Method 8021-Purgeable Halocarbons
182806	SSNDS-7B	Method 8021-Purgeable Halocarbons
182807	SSNDS-8	Method 8021-Purgeable Halocarbons
182808	FB0200	Method 601-Purgeable Halocarbons, Pb

Other Laboratory Locations:

- 149 Rangeway Road, North Billerica MA 01862
- 16203 Park Row, Suite 110, Houston TX 77084
- 200 Monroe Turnpike, Monroe CT 06468
- 120 Southcenter Court, Suite 300, Morrisville NC 27560
- 315 Fullerton Avenue, Newburgh NY 12550

- 11 East Olive Road, Pensacola FL 32514
- Westfield Executive Park, 53 Southampton Road, Westfield MA 01085
- 628 Route 10, Whippany NJ 07981
- 55 South Park Drive, Colchester VT 05446

a part of
Severn Trent Services Inc



<u>Lab No.</u>	<u>Client ID</u>	<u>Analysis Required</u>
182809	TB0200	Method 8021-Purgeable Halocarbons
182810	SSFDS-D	Pb

If you have any questions please contact your Project Manager, Brian Reddy, at
(732) 549-3900.

Very truly yours,

Michael J. Urban
Laboratory Manager

301063

Analytical Methodology Summary

Volatile Organics:

Unless otherwise specified, water samples are analyzed for volatile organics by purge and trap GC/MS as specified in EPA Method 624. Drinking water samples are analyzed by EPA Method 524.2. Solid samples are analyzed for volatile organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8260B. Water samples are analyzed for volatile organics by purge and trap GC/PID and GC/ELCD as specified in EPA Methods 601 and 602. Solid samples are analyzed by GC/PID and GC/ELCD in accordance with SW-846, 3rd Edition Method 8021B.

Acid and Base/Neutral Extractable Organics:

Unless otherwise specified, water samples are analyzed for acid and/or base/neutral extractable organics by GC/MS in accordance with EPA Method 625. Solids are analyzed for acid and/or base/neutral extractable organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8270C.

GC/MS Nontarget Compound Analysis:

Analysis for nontarget compounds is conducted, upon request, in conjunction with GC/MS analyses by EPA Methods 624, 625, 8260B and 8270C. Nontarget compound analysis is conducted using a forward library search of the EPA/NIH/NBS mass spectral library of compounds at the greatest apparent concentration (10% or greater of the nearest internal standard) in each organic fraction (15 for volatile, 15 for base/neutrals and 10 for acid extractables).

Organochlorine Pesticides and PCBs:

Unless otherwise specified, water samples are analyzed for organochlorine pesticides and PCBs by dual column gas chromatography with electron capture detectors as specified in EPA Method 608. Solid samples are analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8081A for organochlorine pesticides and Method 8082 for PCBs.

Total Petroleum Hydrocarbons:

Water samples are analyzed for petroleum hydrocarbons by I.R. using EPA Method 418.1. Solid samples are prepared for analysis by soxhlet extraction consistent with the March 1990 N.J. DEP "Remedial Investigation Guide" Appendix A, page 52, and analyzed by U.S. EPA Method 418.1

Metals Analysis:

Metals analyses are performed by any of four techniques specified by a Method Code provided on each data report page, as follows:

- P - Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP)
- A - Flame Atomic Absorption
- F - Furnace Atomic Absorption
- CV - Manual Cold Vapor (Mercury)

Water samples are digested and analyzed using EPA methods provided in "Methods for Chemical Analysis of Water and Wastewater" (EPA 600/4-79-020). Solid samples are analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition); samples are digested according to Method 3050B "Acid Digestion of Soil, Sediments and Sludges."

Specific method references for ICP analyses are water Method 200.7 and solid Method 6010B. Mercury analyses are conducted by the manual cold vapor technique specified by water Method 245.1 and solid Method 7471A. Other specific Atomic Absorption method references are as follows:

Element	Water Test Method		Solid Test Method	
	Flame	Furnace	Flame	Furnace
Aluminum	202.1	202.2	7020	--
Antimony	204.1	204.2	7040	7041
Arsenic	--	206.2	--	7060
Barium	208.1	--	7080	--
Beryllium	210.1	210.2	7090	7091
Cadmium	213.1	213.2	7130	7131
Calcium	215.1	--	7140	--
Chromium, Total	218.1	218.2	7190	7191
Chromium, (+6)	218.4	218.5	7197	7195
Cobalt	219.1	219.2	7200	7201
Copper	220.1	220.2	7210	--
Iron	236.1	236.2	7380	--
Lead	239.1	239.2	7420	7421
Magnesium	242.1	--	7450	--
Manganese	243.1	243.2	7460	--
Nickel	249.1	249.2	7520	--
Potassium	258.1	--	7610	--
Selenium	--	270.2	--	7740
Silver	272.1	272.2	7760	--
Sodium	273.1	--	7770	--
Tin	283.1	283.2	7870	--
Thallium	279.1	279.2	7840	7841
Vanadium	286.1	286.2	7910	7911
Zinc	289.1	289.2	7950	--

Cyanide:

Water samples are analyzed for cyanide using EPA Method 335.3. Cyanide is determined in solid samples as specified in the EPA Contract Laboratory Program IFB dated July 1988, revised February 1989.

Phenols:

Water samples are analyzed for total phenols using EPA Method 420.2. Total phenols are determined in solid samples by preparing the sample as outlined in the EPA Contract Laboratory Program IFB for cyanide, followed by a phenols determination using EPA Method 420.1.

Cleanup of Semivolatile Extracts:

Upon request Method 3611B Alumina Column Cleanup and/or Method 3650B Acid-Base Partition Cleanup are performed to improve detection limits by the removal of saturated hydrocarbon interferences.

Hazardous Waste Characteristics:

Samples for hazardous waste characteristics are analyzed as specified in the U.S. EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition). Specific method references are as follows:

Ignitability - Method 1020A

Corrosivity - Water pH Method 9040B
Soil pH Method 9045C

Reactivity - Chapter 7, Section 7.3.3 and 7.3.4
respectively for hydrogen cyanide and
hydrogen sulfide release

Toxicity - TCLP Method 1311

Miscellaneous Parameters:

Additional analyses performed on both aqueous and solid samples are in accordance with methods published in the following references:

- Test Methods for Evaluating Solid Wastes, SW-846 3rd Edition, November 1986.
- Standard Methods for the Examination of Water and Wastewater, 17th Edition.
- Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, 1979.

ORGANIC DATA REPORTING QUALIFIERS

- ND - The compound was not detected at the indicated concentration.
- J - Mass spectral data indicates the presence of a compound that meets the identification criteria. The result is less than the specified quantitation limit but greater than zero. The concentration given is an approximate value.
- B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
- P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
 - * - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

INORGANIC DATA REPORTING QUALIFIERS (SW-846 METHODS ONLY)

- ND - The compound was not detected at the indicated concentration.
- B - Reported value is less than the Method Detection Limit but greater than or equal to the Instrument Detection Limit.
- E - The reported value is estimated because of the presence of interference. See explanatory note in the Nonconformance Summary if the problem applies to all of the samples or on the individual Inorganic Analysis Data Sheet if the problem is isolated.
- M - Duplicate injection precision not met on the Furnace Atomic Absorption analysis.
- N - The spiked sample recovery is not within control limits.
- S - The reported value was determined by the Method of Standard Additions (MSA).
 - * - Duplicate Analysis is not within control limits.
- W - Post digestion spike for Furnace Atomic Absorption analysis is out of control.
- + - Correlation coefficient for MSA is less than 0.995.

M Column - Method Qualifiers

- P - Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP).
- A - Flame Atomic Absorption Spectroscopy (FAA).
- F - Graphite Furnace Atomic Absorption Spectroscopy (GFAA).
- CV - Cold Vapor Atomic Absorption Spectroscopy.

Client ID: FB0200
Site: Klockner & Klockner

Lab Sample No: 182808
Lab Job No: X303

Date Sampled: 02/08/00
Date Received: 02/09/00
Date Analyzed: 02/10/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: held7529.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Final Volume: 0.0 mL
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/ELCD
METHOD 601

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
Dichlorodifluoromethane	ND	0.33
Chloromethane	ND	0.59
Vinyl Chloride	ND	0.54
Bromomethane	ND	0.61
Chloroethane	ND	0.48
Trichlorofluoromethane	ND	0.43
1,1-Dichloroethene	ND	0.35
Methylene Chloride	ND	0.57
trans-1,2-Dichloroethene	ND	0.28
1,1-Dichloroethane	ND	0.36
cis-1,2-Dichloroethene	ND	0.38
Chloroform	ND	0.43
1,1,1-Trichloroethane	ND	0.27
Carbon Tetrachloride	ND	0.30
1,2-Dichloroethane	ND	0.54
Trichloroethene	ND	0.38
1,2-Dichloropropane	ND	0.56
Bromodichloromethane	ND	0.62
2-Chloroethyl Vinyl Ether	ND	0.49
cis-1,3-Dichloropropene	ND	0.56
trans-1,3-Dichloropropene	ND	0.56
1,1,2-Trichloroethane	ND	0.52
Tetrachloroethene	ND	0.21
Dibromochloromethane	ND	0.47
Chlorobenzene	ND	0.43
Bromoform	ND	0.95
1,1,2,2-Tetrachloroethane	ND	0.53
1,3-Dichlorobenzene	ND	0.60
1,4-Dichlorobenzene	ND	0.59
1,2-Dichlorobenzene	ND	0.62

Client ID: **SSAW-9**
Site: Klockner & Klockner

Lab Sample No: **182785**
Lab Job No: X303

Date Sampled: 02/08/00
Date Received: 02/09/00
Date Analyzed: 02/15/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: held7569.d

Matrix: SOIL
Level: HIGH
Sample Weight: 12 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 8.2

VOLATILE ORGANICS - GC

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>
Dichlorodifluoromethane	ND		120
Chloromethane	ND		120
Vinyl Chloride	ND		120
Bromomethane	ND		120
Chloroethane	ND		120
Trichlorofluoromethane	ND		120
1,1-Dichloroethene	ND		120
Methylene Chloride	ND		120
trans-1,2-Dichloroethene	ND		120
1,1-Dichloroethane	ND		120
cis-1,2-Dichloroethene	ND		120
Chloroform	ND		120
1,1,1-Trichloroethane	ND		120
Carbon Tetrachloride	ND		120
1,2-Dichloroethane	ND		120
Trichloroethene	440		120
1,2-Dichloropropane	ND		120
Bromodichloromethane	ND		120
2-Chloroethyl Vinyl Ether	ND		120
cis-1,3-Dichloropropene	ND		120
trans-1,3-Dichloropropene	ND		120
1,1,2-Trichloroethane	ND		120
Tetrachloroethene	ND		120
Dibromochloromethane	ND		120
Chlorobenzene	ND		120
Bromoform	ND		120
1,1,2,2-Tetrachloroethane	ND		120
1,3-Dichlorobenzene	ND		120
1,4-Dichlorobenzene	ND		120
1,2-Dichlorobenzene	ND		120

Client ID: SSAW-11
Site: Klockner & Klockner

Lab Sample No: 182786
Lab Job No: X303

Date Sampled: 02/08/00
Date Received: 02/09/00
Date Analyzed: 02/15/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: held7570.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 100.0
% Moisture: 24.7

VOLATILE ORGANICS - GC

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>
Dichlorodifluoromethane	ND		300
Chloromethane	ND		300
Vinyl Chloride	ND		300
Bromomethane	ND		300
Chloroethane	ND		300
Trichlorofluoromethane	ND		300
1,1-Dichloroethene	ND		300
Methylene Chloride	ND		300
trans-1,2-Dichloroethene	ND		300
1,1-Dichloroethane	ND		300
cis-1,2-Dichloroethene	ND		300
Chloroform	ND		300
1,1,1-Trichloroethane	ND		300
Carbon Tetrachloride	ND		300
1,2-Dichloroethane	ND		300
Trichloroethene	9900		300
1,2-Dichloropropane	ND		300
Bromodichloromethane	ND		300
2-Chloroethyl Vinyl Ether	ND		300
cis-1,3-Dichloropropene	ND		300
trans-1,3-Dichloropropene	ND		300
1,1,2-Trichloroethane	ND		300
Tetrachloroethene	370		300
Dibromochloromethane	ND		300
Chlorobenzene	ND		300
Bromoform	ND		300
1,1,2,2-Tetrachloroethane	ND		300
1,3-Dichlorobenzene	ND		300
1,4-Dichlorobenzene	ND		300
1,2-Dichlorobenzene	ND		300

Client ID: **SSFS-1D**
Site: Klockner & Klockner

Lab Sample No: **182788**
Lab Job No: X303

Date Sampled: 02/08/00
Date Received: 02/09/00
Date Analyzed: 02/15/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: held7571.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 2.7

VOLATILE ORGANICS - GC

<u>Parameter</u>	<u>Analytical Results</u>	
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/kg</u>
Dichlorodifluoromethane	ND	110
Chloromethane	ND	110
Vinyl Chloride	ND	110
Bromomethane	ND	110
Chloroethane	ND	110
Trichlorofluoromethane	ND	110
1,1-Dichloroethene	ND	110
Methylene Chloride	ND	110
trans-1,2-Dichloroethene	ND	110
1,1-Dichloroethane	ND	110
cis-1,2-Dichloroethene	ND	110
Chloroform	ND	110
1,1,1-Trichloroethane	ND	110
Carbon Tetrachloride	ND	110
1,2-Dichloroethane	ND	110
Trichloroethene	ND	110
1,2-Dichloropropane	ND	110
Bromodichloromethane	ND	110
2-Chloroethyl Vinyl Ether	ND	110
cis-1,3-Dichloropropene	ND	110
trans-1,3-Dichloropropene	ND	110
1,1,2-Trichloroethane	ND	110
Tetrachloroethene	ND	110
Dibromochloromethane	ND	110
Chlorobenzene	ND	110
Bromoform	ND	110
1,1,2,2-Tetrachloroethane	ND	110
1,3-Dichlorobenzene	ND	110
1,4-Dichlorobenzene	ND	110
1,2-Dichlorobenzene	ND	110

Client ID: SSNDS-1C
Site: Klockner & Klockner

Lab Sample No: 182795
Lab Job No: X303

Date Sampled: 02/08/00
Date Received: 02/09/00
Date Analyzed: 02/15/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: held7572.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 4.7

VOLATILE ORGANICS - GC

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Dichlorodifluoromethane	ND	120
Chloromethane	ND	120
Vinyl Chloride	ND	120
Bromomethane	ND	120
Chloroethane	ND	120
Trichlorofluoromethane	ND	120
1,1-Dichloroethene	ND	120
Methylene Chloride	ND	120
trans-1,2-Dichloroethene	ND	120
1,1-Dichloroethane	ND	120
cis-1,2-Dichloroethene	ND	120
Chloroform	ND	120
1,1,1-Trichloroethane	ND	120
Carbon Tetrachloride	ND	120
1,2-Dichloroethane	ND	120
Trichloroethene	ND	120
1,2-Dichloropropane	ND	120
Bromodichloromethane	ND	120
2-Chloroethyl Vinyl Ether	ND	120
cis-1,3-Dichloropropene	ND	120
trans-1,3-Dichloropropene	ND	120
1,1,2-Trichloroethane	ND	120
Tetrachloroethene	ND	120
Dibromochloromethane	ND	120
Chlorobenzene	ND	120
Bromoform	ND	120
1,1,2,2-Tetrachloroethane	ND	120
1,3-Dichlorobenzene	ND	120
1,4-Dichlorobenzene	ND	120
1,2-Dichlorobenzene	ND	120

301072

Client ID: SSNDS-1D
Site: Klockner & Klockner

Lab Sample No: 182796
Lab Job No: X303

Date Sampled: 02/08/00
Date Received: 02/09/00
Date Analyzed: 02/15/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: held7573.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 4.0

VOLATILE ORGANICS - GC

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Dichlorodifluoromethane	ND	120
Chloromethane	ND	120
Vinyl Chloride	ND	120
Bromomethane	ND	120
Chloroethane	ND	120
Trichlorofluoromethane	ND	120
1,1-Dichloroethene	ND	120
Methylene Chloride	ND	120
trans-1,2-Dichloroethene	ND	120
1,1-Dichloroethane	ND	120
cis-1,2-Dichloroethene	ND	120
Chloroform	ND	120
1,1,1-Trichloroethane	ND	120
Carbon Tetrachloride	ND	120
1,2-Dichloroethane	ND	120
Trichloroethene	ND	120
1,2-Dichloropropane	ND	120
Bromodichloromethane	ND	120
2-Chloroethyl Vinyl Ether	ND	120
cis-1,3-Dichloropropene	ND	120
trans-1,3-Dichloropropene	ND	120
1,1,2-Trichloroethane	ND	120
Tetrachloroethene	ND	120
Dibromochloromethane	ND	120
Chlorobenzene	ND	120
Bromoform	ND	120
1,1,2,2-Tetrachloroethane	ND	120
1,3-Dichlorobenzene	ND	120
1,4-Dichlorobenzene	ND	120
1,2-Dichlorobenzene	ND	120

Client ID: SSNDS-2C
Site: Klockner & Klockner

Lab Sample No: 182797
Lab Job No: X303

Date Sampled: 02/08/00
Date Received: 02/09/00
Date Analyzed: 02/15/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: held7574.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 15.2

VOLATILE ORGANICS - GC

<u>Parameter</u>	<u>Analytical Results</u>	
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/kg</u>
Dichlorodifluoromethane	ND	140
Chloromethane	ND	140
Vinyl Chloride	ND	140
Bromomethane	ND	140
Chloroethane	ND	140
Trichlorofluoromethane	ND	140
1,1-Dichloroethene	ND	140
Methylene Chloride	ND	140
trans-1,2-Dichloroethene	ND	140
1,1-Dichloroethane	ND	140
cis-1,2-Dichloroethene	ND	140
Chloroform	ND	140
1,1,1-Trichloroethane	ND	140
Carbon Tetrachloride	ND	140
1,2-Dichloroethane	ND	140
Trichloroethene	ND	140
1,2-Dichloropropane	ND	140
Bromodichloromethane	ND	140
2-Chloroethyl Vinyl Ether	ND	140
cis-1,3-Dichloropropene	ND	140
trans-1,3-Dichloropropene	ND	140
1,1,2-Trichloroethane	ND	140
Tetrachloroethene	ND	140
Dibromochloromethane	ND	140
Chlorobenzene	ND	140
Bromoform	ND	140
1,1,2,2-Tetrachloroethane	ND	140
1,3-Dichlorobenzene	ND	140
1,4-Dichlorobenzene	ND	140
1,2-Dichlorobenzene	ND	140

Client ID: SSNDS-3A
Site: Klockner & Klockner

Lab Sample No: 182798
Lab Job No: X303

Date Sampled: 02/08/00
Date Received: 02/09/00
Date Analyzed: 02/15/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: held7575.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 6.8

VOLATILE ORGANICS - GC

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	Units: ug/kg (Dry Weight)		Limit Units: ug/kg
Dichlorodifluoromethane	ND		140
Chloromethane	ND		140
Vinyl Chloride	ND		140
Bromomethane	ND		140
Chloroethane	ND		140
Trichlorofluoromethane	ND		140
1,1-Dichloroethene	ND		140
Methylene Chloride	270		140
trans-1,2-Dichloroethene	ND		140
1,1-Dichloroethane	ND		140
cis-1,2-Dichloroethene	ND		140
Chloroform	ND		140
1,1,1-Trichloroethane	ND		140
Carbon Tetrachloride	ND		140
1,2-Dichloroethane	ND		140
Trichloroethene	470		140
1,2-Dichloropropane	ND		140
Bromodichloromethane	ND		140
2-Chloroethyl Vinyl Ether	ND		140
cis-1,3-Dichloropropene	ND		140
trans-1,3-Dichloropropene	ND		140
1,1,2-Trichloroethane	ND		140
Tetrachloroethene	ND		140
Dibromochloromethane	ND		140
Chlorobenzene	ND		140
Bromoform	ND		140
1,1,2,2-Tetrachloroethane	ND		140
1,3-Dichlorobenzene	ND		140
1,4-Dichlorobenzene	ND		140
1,2-Dichlorobenzene	ND		140

Client ID: SSNDS-3B
Site: Klockner & Klockner

Lab Sample No: 182799
Lab Job No: X303

Date Sampled: 02/08/00
Date Received: 02/09/00
Date Analyzed: 02/15/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: held7576.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 14.9

VOLATILE ORGANICS - GC

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>
Dichlorodifluoromethane	ND		140
Chloromethane	ND		140
Vinyl Chloride	ND		140
Bromomethane	ND		140
Chloroethane	ND		140
Trichlorofluoromethane	ND		140
1,1-Dichloroethene	ND		140
Methylene Chloride	ND		140
trans-1,2-Dichloroethene	ND		140
1,1-Dichloroethane	ND		140
cis-1,2-Dichloroethene	ND		140
Chloroform	ND		140
1,1,1-Trichloroethane	ND		140
Carbon Tetrachloride	ND		140
1,2-Dichloroethane	ND		140
Trichloroethene	2700		140
1,2-Dichloropropane	ND		140
Bromodichloromethane	ND		140
2-Chloroethyl Vinyl Ether	ND		140
cis-1,3-Dichloropropene	ND		140
trans-1,3-Dichloropropene	ND		140
1,1,2-Trichloroethane	ND		140
Tetrachloroethene	ND		140
Dibromochloromethane	ND		140
Chlorobenzene	ND		140
Bromoform	ND		140
1,1,2,2-Tetrachloroethane	ND		140
1,3-Dichlorobenzene	ND		140
1,4-Dichlorobenzene	ND		140
1,2-Dichlorobenzene	ND		140

Client ID: SSNDS-4A
Site: Klockner & Klockner

Lab Sample No: 182800
Lab Job No: X303

Date Sampled: 02/08/00
Date Received: 02/09/00
Date Analyzed: 02/15/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: held7577.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 12.6

VOLATILE ORGANICS - GC

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Dichlorodifluoromethane	ND	130
Chloromethane	ND	130
Vinyl Chloride	ND	130
Bromomethane	ND	130
Chloroethane	ND	130
Trichlorofluoromethane	ND	130
1,1-Dichloroethene	ND	130
Methylene Chloride	ND	130
trans-1,2-Dichloroethene	ND	130
1,1-Dichloroethane	ND	130
cis-1,2-Dichloroethene	ND	130
Chloroform	ND	130
1,1,1-Trichloroethane	ND	130
Carbon Tetrachloride	ND	130
1,2-Dichloroethane	ND	130
Trichloroethene	2300	130
1,2-Dichloropropane	ND	130
Bromodichloromethane	ND	130
2-Chloroethyl Vinyl Ether	ND	130
cis-1,3-Dichloropropene	ND	130
trans-1,3-Dichloropropene	ND	130
1,1,2-Trichloroethane	ND	130
Tetrachloroethene	ND	130
Dibromochloromethane	ND	130
Chlorobenzene	ND	130
Bromoform	ND	130
1,1,2,2-Tetrachloroethane	ND	130
1,3-Dichlorobenzene	ND	130
1,4-Dichlorobenzene	ND	130
1,2-Dichlorobenzene	ND	130

301077

Client ID: SSNDS-4B
Site: Klockner & Klockner

Lab Sample No: 182801
Lab Job No: X303

Date Sampled: 02/08/00
Date Received: 02/09/00
Date Analyzed: 02/15/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: held7578.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 15.6

VOLATILE ORGANICS - GC

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>
Dichlorodifluoromethane	ND		130
Chloromethane	ND		130
Vinyl Chloride	ND		130
Bromomethane	ND		130
Chloroethane	ND		130
Trichlorofluoromethane	ND		130
1,1-Dichloroethene	ND		130
Methylene Chloride	ND		130
trans-1,2-Dichloroethene	ND		130
1,1-Dichloroethane	ND		130
cis-1,2-Dichloroethene	ND		130
Chloroform	ND		130
1,1,1-Trichloroethane	ND		130
Carbon Tetrachloride	ND		130
1,2-Dichloroethane	ND		130
Trichloroethene	180		130
1,2-Dichloropropane	ND		130
Bromodichloromethane	ND		130
2-Chloroethyl Vinyl Ether	ND		130
cis-1,3-Dichloropropene	ND		130
trans-1,3-Dichloropropene	ND		130
1,1,2-Trichloroethane	ND		130
Tetrachloroethene	ND		130
Dibromochloromethane	ND		130
Chlorobenzene	ND		130
Bromoform	ND		130
1,1,2,2-Tetrachloroethane	ND		130
1,3-Dichlorobenzene	ND		130
1,4-Dichlorobenzene	ND		130
1,2-Dichlorobenzene	ND		130

Client ID: SSNDS-5
Site: Klockner & Klockner

Lab Sample No: 182802
Lab Job No: X303

Date Sampled: 02/08/00
Date Received: 02/09/00
Date Analyzed: 02/17/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: held7600.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 7.1

VOLATILE ORGANICS - GC

<u>Parameter</u>	<u>Analytical Results</u>	
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/kg</u>
Dichlorodifluoromethane	ND	130
Chloromethane	ND	130
Vinyl Chloride	ND	130
Bromomethane	ND	130
Chloroethane	ND	130
Trichlorofluoromethane	ND	130
1,1-Dichloroethene	ND	130
Methylene Chloride	ND	130
trans-1,2-Dichloroethene	ND	130
1,1-Dichloroethane	ND	130
cis-1,2-Dichloroethene	ND	130
Chloroform	ND	130
1,1,1-Trichloroethane	ND	130
Carbon Tetrachloride	ND	130
1,2-Dichloroethane	ND	130
Trichloroethene	480	130
1,2-Dichloropropane	ND	130
Bromodichloromethane	ND	130
2-Chloroethyl Vinyl Ether	ND	130
cis-1,3-Dichloropropene	ND	130
trans-1,3-Dichloropropene	ND	130
1,1,2-Trichloroethane	ND	130
Tetrachloroethene	ND	130
Dibromochloromethane	ND	130
Chlorobenzene	ND	130
Bromoform	ND	130
1,1,2,2-Tetrachloroethane	ND	130
1,3-Dichlorobenzene	ND	130
1,4-Dichlorobenzene	ND	130
1,2-Dichlorobenzene	ND	130

301079

Client ID: SSNDS-D
Site: Klockner & Klockner

Lab Sample No: 182803
Lab Job No: X303

Date Sampled: 02/08/00
Date Received: 02/09/00
Date Analyzed: 02/17/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: held7601.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 8.2

VOLATILE ORGANICS - GC

<u>Parameter</u>	<u>Analytical Results</u>	
	<u>Units: ug/kg</u>	<u>Quantitation</u>
	<u>(Dry Weight)</u>	<u>Limit</u>
		<u>Units: ug/kg</u>
Dichlorodifluoromethane	ND	140
Chloromethane	ND	140
Vinyl Chloride	ND	140
Bromomethane	ND	140
Chloroethane	ND	140
Trichlorofluoromethane	ND	140
1,1-Dichloroethene	ND	140
Methylene Chloride	ND	140
trans-1,2-Dichloroethene	ND	140
1,1-Dichloroethane	ND	140
cis-1,2-Dichloroethene	ND	140
Chloroform	ND	140
1,1,1-Trichloroethane	ND	140
Carbon Tetrachloride	ND	140
1,2-Dichloroethane	ND	140
Trichloroethene	ND	140
1,2-Dichloropropane	ND	140
Bromodichloromethane	ND	140
2-Chloroethyl Vinyl Ether	ND	140
cis-1,3-Dichloropropene	ND	140
trans-1,3-Dichloropropene	ND	140
1,1,2-Trichloroethane	ND	140
Tetrachloroethene	ND	140
Dibromochloromethane	ND	140
Chlorobenzene	ND	140
Bromoform	ND	140
1,1,2,2-Tetrachloroethane	ND	140
1,3-Dichlorobenzene	ND	140
1,4-Dichlorobenzene	ND	140
1,2-Dichlorobenzene	ND	140

Client ID: SSNDS-6
Site: Klockner & Klockner

Lab Sample No: 182804
Lab Job No: X303

Date Sampled: 02/08/00
Date Received: 02/09/00
Date Analyzed: 02/17/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: held7602.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 7.1

VOLATILE ORGANICS - GC

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Dichlorodifluoromethane	ND	120
Chloromethane	ND	120
Vinyl Chloride	ND	120
Bromomethane	ND	120
Chloroethane	ND	120
Trichlorofluoromethane	ND	120
1,1-Dichloroethene	ND	120
Methylene Chloride	ND	120
trans-1,2-Dichloroethene	ND	120
1,1-Dichloroethane	ND	120
cis-1,2-Dichloroethene	ND	120
Chloroform	ND	120
1,1,1-Trichloroethane	ND	120
Carbon Tetrachloride	ND	120
1,2-Dichloroethane	ND	120
Trichloroethene	410	120
1,2-Dichloropropane	ND	120
Bromodichloromethane	ND	120
2-Chloroethyl Vinyl Ether	ND	120
cis-1,3-Dichloropropene	ND	120
trans-1,3-Dichloropropene	ND	120
1,1,2-Trichloroethane	ND	120
Tetrachloroethene	ND	120
Dibromochloromethane	ND	120
Chlorobenzene	ND	120
Bromoform	ND	120
1,1,2,2-Tetrachloroethane	ND	120
1,3-Dichlorobenzene	ND	120
1,4-Dichlorobenzene	ND	120
1,2-Dichlorobenzene	ND	120

301081

Client ID: SSNDS-7A
Site: Klockner & Klockner

Lab Sample No: 182805
Lab Job No: X303

Date Sampled: 02/08/00
Date Received: 02/09/00
Date Analyzed: 02/17/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: held7603.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 9.6

VOLATILE ORGANICS - GC

<u>Parameter</u>	<u>Analytical Results</u>	
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/kg</u>
Dichlorodifluoromethane	ND	120
Chloromethane	ND	120
Vinyl Chloride	ND	120
Bromomethane	ND	120
Chloroethane	ND	120
Trichlorofluoromethane	ND	120
1,1-Dichloroethene	ND	120
Methylene Chloride	ND	120
trans-1,2-Dichloroethene	ND	120
1,1-Dichloroethane	ND	120
cis-1,2-Dichloroethene	ND	120
Chloroform	ND	120
1,1,1-Trichloroethane	ND	120
Carbon Tetrachloride	ND	120
1,2-Dichloroethane	ND	120
Trichloroethene	ND	120
1,2-Dichloropropane	ND	120
Bromodichloromethane	ND	120
2-Chloroethyl Vinyl Ether	ND	120
cis-1,3-Dichloropropene	ND	120
trans-1,3-Dichloropropene	ND	120
1,1,2-Trichloroethane	ND	120
Tetrachloroethene	ND	120
Dibromochloromethane	ND	120
Chlorobenzene	ND	120
Bromoform	ND	120
1,1,2,2-Tetrachloroethane	ND	120
1,3-Dichlorobenzene	ND	120
1,4-Dichlorobenzene	ND	120
1,2-Dichlorobenzene	ND	120

Client ID: SSNDS-7B
Site: Klockner & Klockner

Lab Sample No: 182806
Lab Job No: X303

Date Sampled: 02/08/00
Date Received: 02/09/00
Date Analyzed: 02/17/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: held7605.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 8.2

VOLATILE ORGANICS - GC

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Dichlorodifluoromethane	ND	130
Chloromethane	ND	130
Vinyl Chloride	ND	130
Bromomethane	ND	130
Chloroethane	ND	130
Trichlorofluoromethane	ND	130
1,1-Dichloroethene	ND	130
Methylene Chloride	ND	130
trans-1,2-Dichloroethene	ND	130
1,1-Dichloroethane	ND	130
cis-1,2-Dichloroethene	ND	130
Chloroform	ND	130
1,1,1-Trichloroethane	ND	130
Carbon Tetrachloride	ND	130
1,2-Dichloroethane	ND	130
Trichloroethene	ND	130
1,2-Dichloropropane	ND	130
Bromodichloromethane	ND	130
2-Chloroethyl Vinyl Ether	ND	130
cis-1,3-Dichloropropene	ND	130
trans-1,3-Dichloropropene	ND	130
1,1,2-Trichloroethane	ND	130
Tetrachloroethene	ND	130
Dibromochloromethane	ND	130
Chlorobenzene	ND	130
Bromoform	ND	130
1,1,2,2-Tetrachloroethane	ND	130
1,3-Dichlorobenzene	ND	130
1,4-Dichlorobenzene	ND	130
1,2-Dichlorobenzene	ND	130

Client ID: SSNDS-8
Site: Klockner & Klockner

Lab Sample No: 182807
Lab Job No: X303

Date Sampled: 02/08/00
Date Received: 02/09/00
Date Analyzed: 02/17/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: held7606.d

Matrix: SOIL
Level: HIGH
Sample Weight: 12 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 7.5

VOLATILE ORGANICS - GC

<u>Parameter</u>	<u>Analytical Results</u>	
	<u>Units: ug/kg</u>	<u>Quantitation</u>
	<u>(Dry Weight)</u>	<u>Limit</u>
		<u>Units: ug/kg</u>
Dichlorodifluoromethane	ND	110
Chloromethane	ND	110
Vinyl Chloride	ND	110
Bromomethane	ND	110
Chloroethane	ND	110
Trichlorofluoromethane	ND	110
1,1-Dichloroethene	ND	110
Methylene Chloride	ND	110
trans-1,2-Dichloroethene	ND	110
1,1-Dichloroethane	ND	110
cis-1,2-Dichloroethene	ND	110
Chloroform	ND	110
1,1,1-Trichloroethane	ND	110
Carbon Tetrachloride	ND	110
1,2-Dichloroethane	ND	110
Trichloroethene	ND	110
1,2-Dichloropropane	ND	110
Bromodichloromethane	ND	110
2-Chloroethyl Vinyl Ether	ND	110
cis-1,3-Dichloropropene	ND	110
trans-1,3-Dichloropropene	ND	110
1,1,2-Trichloroethane	ND	110
Tetrachloroethene	ND	110
Dibromochloromethane	ND	110
Chlorobenzene	ND	110
Bromoform	ND	110
1,1,2,2-Tetrachloroethane	ND	110
1,3-Dichlorobenzene	ND	110
1,4-Dichlorobenzene	ND	110
1,2-Dichlorobenzene	ND	110

Client ID: TB0200
Site: Klockner & Klockner

Lab Sample No: 182809
Lab Job No: X303

Date Sampled: 02/08/00
Date Received: 02/09/00
Date Analyzed: 02/17/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: held7607.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0.0

VOLATILE ORGANICS - GC

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Dichlorodifluoromethane	ND	120
Chloromethane	ND	120
Vinyl Chloride	ND	120
Bromomethane	ND	120
Chloroethane	ND	120
Trichlorofluoromethane	ND	120
1,1-Dichloroethene	ND	120
Methylene Chloride	ND	120
trans-1,2-Dichloroethene	ND	120
1,1-Dichloroethane	ND	120
cis-1,2-Dichloroethene	ND	120
Chloroform	ND	120
1,1,1-Trichloroethane	ND	120
Carbon Tetrachloride	ND	120
1,2-Dichloroethane	ND	120
Trichloroethene	ND	120
1,2-Dichloropropane	ND	120
Bromodichloromethane	ND	120
2-Chloroethyl Vinyl Ether	ND	120
cis-1,3-Dichloropropene	ND	120
trans-1,3-Dichloropropene	ND	120
1,1,2-Trichloroethane	ND	120
Tetrachloroethene	ND	120
Dibromochloromethane	ND	120
Chlorobenzene	ND	120
Bromoform	ND	120
1,1,2,2-Tetrachloroethane	ND	120
1,3-Dichlorobenzene	ND	120
1,4-Dichlorobenzene	ND	120
1,2-Dichlorobenzene	ND	120

Client ID: SSFS-1C
Site: Klockner & Klockner

Lab Sample No: 182787
Lab Job No: X303

Date Sampled: 02/08/00
Date Received: 02/09/00

Matrix: SOLID
Level: LOW
% Moisture: 5.6

METALS ANALYSIS

<u>Analyte</u>	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	<u>Qual</u>	<u>M</u>
Lead	77.3	4.5	N*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: SSFS-4A
Site: Klockner & Klockner

Lab Sample No: 182789
Lab Job No: X303

Date Sampled: 02/08/00
Date Received: 02/09/00

Matrix: SOLID
Level: LOW
% Moisture: 9.7

METALS ANALYSIS

<u>Analyte</u>	Analytical Result Units: mg/kg <u>(Dry Weight)</u>	Instrument Detection <u>Limit</u>	<u>Qual</u>	<u>M</u>
Lead	128	4.7	N*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

301087

Client ID: SSFS-5A
Site: Klockner & Klockner

Lab Sample No: 182791
Lab Job No: X303

Date Sampled: 02/08/00
Date Received: 02/09/00

Matrix: SOLID
Level: LOW
% Moisture: 4.6

METALS ANALYSIS

<u>Analyte</u>	Analytical Result Units: mg/kg <u>(Dry Weight)</u>	Instrument Detection <u>Limit</u>	<u>Qual</u>	<u>M</u>
Lead	11.1	4.5	N*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

301088

Client ID: SSFS-6A
Site: Klockner & Klockner

Lab Sample No: 182793
Lab Job No: X303

Date Sampled: 02/08/00
Date Received: 02/09/00

Matrix: SOLID
Level: LOW
% Moisture: 4.0

METALS ANALYSIS

<u>Analyte</u>	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	<u>Qual</u>	<u>M</u>
Lead	8.8	4.5	BN*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

301090

Client ID: FB0200
Site: Klockner & Klockner

Lab Sample No: 182808
Lab Job No: X303

Date Sampled: 02/08/00
Date Received: 02/09/00

Matrix: WATER
Level: LOW

METALS ANALYSIS

<u>Analyte</u>	Analytical Result <u>Units: ug/l</u>	Instrument Detection <u>Limit</u>	<u>Qual</u>	<u>M</u>
Lead	ND	21.4	N*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

301091

Client ID: SSFDS-D
Site: Klockner & Klockner

Lab Sample No: 182810
Lab Job No: X303

Date Sampled: 02/08/00
Date Received: 02/09/00

Matrix: SOLID
Level: LOW
% Moisture: 3.7

METALS ANALYSIS

<u>Analyte</u>	Analytical Result Units: mg/kg <u>(Dry Weight)</u>	Instrument Detection <u>Limit</u>	<u>Qual</u>	<u>M</u>
Lead	34.6	4.4	N*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

301092

SAMPLE DATE: 2/8/00
SAMPLER(S): Cheryl Coffee

X 303

SAMPLE TIME	SAMPLE LOCATION	SAMPLE ID#	SAMPLE DEPTH	SAMPLE MATRIX	ANALYSIS REQUESTED	PRESER-VATIVE	NO. OF CONT.	SPECIAL INSTRUCTIONS
2:40	Alleyway/Bldg	SSAW-9	5-5.5'	soil	PHAL	MeOH	2	CLP Package 182785
2:15	Alleyway/Bldg	SSAW-11	1-1.5'	soil	PHAL	MeOH	2	PHAL by 8021 182786
1:00	North Drum Storage	SSFS-1C	2-2.5'	soil	Lead	Ice	1	182787
1:05	Drum Storage	SSFS-1D	5-5.5'	soil	PHAL	MeOH	2	182788
12:25	Drum Storage	SSFS-4A	0-0.5'	soil	Lead	Ice	1	182789
12:30	Drum Storage	SSFS-4B	2-2.5'	soil	Lead - Contingent	Ice	1	Hold 182790
12:15	Drum Storage	SSFS-5A	0-0.5'	soil	Lead	Ice	1	182791
12:20	Drum Storage	SSFS-5B	2-2.5'	soil	Lead - contingent	Ice	1	hold 182792
1:15	Drum Storage	SSFS-6A	0-0.5'	soil	Lead	Ice	1	182793
1:20	Drum Storage	SSFS-6B	2-2.5'	soil	Lead - contingent	Ice	1	hold 182794
11:40	North Drum Storage	SSNDS-1C	4.5-5'	soil	PHAL	MeOH	2	182795
11:50	North Drum Storage	SSNDS-1D	12-12.5'	soil	PHAL	MeOH	2	182796
11:15	North Drum Storage	SSNDS-2C	5-5.5'	soil	PHAL	MeOH	2	182797
1:45	North Drum Storage	SSNDS-3A	1-1.5'	soil	PHAL	MeOH	2	182798
1:50	North Drum Storage	SSNDS-3B	4.5-5'	soil	PHAL	MeOH	2	182799
11:55	North Drum Storage	SSNDS-4A	1.5-2'	soil	PHAL	MeOH	2	182800
12:00	North Drum Storage	SSNDS-4B	4.5-5'	soil	PHAL	MeOH	2	182801
12:45	North Drum Storage	SSNDS-5	1-1.5'	soil	PHAL	MeOH	2	182802
12:50	North Drum Storage	SSNDS-D	1-1.5'	soil	PHAL	MeOH	2	182803
11:05	North Drum Storage	SSNDS-6	1-1.5'	soil	PHAL	MeOH	2	182804
10:50	North Drum Storage	SSNDS-7A	1.5-2'	soil	PHAL	MeOH	2	182805
10:55	North Drum Storage	SSNDS-7B	4.5-5'	soil	PHAL	MeOH	2	182806
10:30	North Drum Storage	SSNDS-8	1-1.5'	soil	PHAL	MeOH	2	182807

RELINQUISHED BY: Cheryl Coffee

DATE: 2/9/00 TIME: 1:35

RECEIVED BY: [Signature]

DATE: 2/9/00 TIME: 1:35

RELINQUISHED BY: [Signature]

DATE: 2/9/00 TIME: 1:50

RECEIVED BY: [Signature]

DATE: 2/9/00 TIME: 1:50

ANALYTICAL PARAMETER IDENTIFICATION KEY:

- PHC: PETROLEUM HYDROCARBONS
- VOC: VOLATILE ORGANICS BY GC/MS WITH LIBRARY SEARCH
- PAH: POLYCYCLIC AROMATIC HYDROCARBONS IN BASE NEUTRAL SCAN WITH LIBRARY SEARCH
- BN: BASE NEUTRALS WITH LIBRARY SEARCH
- AE: ACID EXTRACTABLES WITH LIBRARY SEARCH
- PPM: PRIORITY POLLUTANT METALS
- PP+40: PRIORITY POLLUTANT PLUS FORTY PEAKS

TOTAL NO. CONTAINERS _____

301093

X 303

LABORATORY: Envirotech Research

[illegible]

RELINQUISHED BY: Cheryl L. Coyle

DATE: 2/4/00 TIME: 1350 RECEIVED BY: W. J. R. DATE: 2-9-00 TIME: 1350

RELINQUISHED BY: W. J. K.

DATE: 2-7-00 TIME: 1550 RECEIVED BY: DATE: TIME:

ANALYTICAL PARAMETER IDENTIFICATION KEY:

PHC: PETROLEUM HYDROCARBONS
VOC: VOLATILE ORGANICS BY GC/MS WITH LIBRARY SEARCH
PAH: POLYCYCLIC AROMATIC HYDROCARBONS IN BASE NEUTRAL SCAN WITH LIBRARY SEARCH
BN: BASE NEUTRALS WITH LIBRARY SEARCH
AE: ACID EXTRACTABLES WITH LIBRARY SEARCH
PPM: PRIORITY POLLUTANT METALS
PP+40: PRIORITY POLLUTANT PLUS FORTY PEAKS

TOTAL NO. CONTAINERS

The Whitman Companies
44 West Ferris Street
East Brunswick, NJ 08816
908-390-5858

301094

ATTACHMENT 2

ANALYTICAL DATA SHEETS

FEBRUARY 15, 2000 – BUILDING 12

301095



a division of Severn Trent Laboratories, Inc.

STL Envirotech

777 New Durham Road

Edison, NJ 08817

Tel: (732) 549-3900

Fax: (732) 549-3679

www.stl-inc.com

March 06, 2000

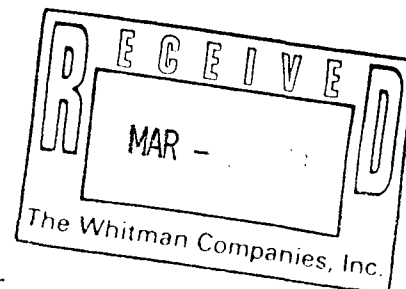
The Whitman Companies, Inc.
44 West Ferris Street
East Brunswick, NJ 08816

Attention: Mr. Michael Metlitz

Re: Job No. X456 - Klockner & Klockner

Dear Mr. Metlitz:

Enclosed are the results you requested for the following sample(s) received at our laboratory on February 16, 2000:



<u>Lab No.</u>	<u>Client ID</u>	<u>Analysis Required</u>
183831	SSAW-3	Method 8021 - Purgeable Halocarbons
183832	SSAW-12	Method 8021 - Purgeable Halocarbons
183833	SSAW-13	Method 8021 - Purgeable Halocarbons
183834	SSAW-14	Method 8021 - Purgeable Halocarbons
183835	SSAW-15	Method 8021 - Purgeable Halocarbons
183836	SSAW-16	Method 8021 - Purgeable Halocarbons
183837	SSAW-D	Method 8021 - Purgeable Halocarbons
183838	SSAW-17	Method 8021 - Purgeable Halocarbons
183839	SSFS-3A	Pb
183840	SSFS-3B	Method 8021 - Purgeable Halocarbons
183841	SSFS-3C	Pb
183842	FBA0200	Method 8021 - Purgeable Halocarbons, Pb
183843	TBA0200	Method 8021 - Purgeable Halocarbons

If you have any questions please contact your Project Manager, Brian Reddy, at (732) 549-3900.

Very truly yours,

Michael J. Urban
Laboratory Manager

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Other Laboratory Locations:

- 149 Rangeway Road, North Billerica MA 01862
- 16203 Park Row, Suite 110, Houston TX 77084
- 200 Monroe Turnpike, Monroe CT 06468
- 120 Southcenter Court, Suite 300, Morrisville NC 27560
- 315 Fullerton Avenue, Newburgh NY 12550

- 11 East Olive Road, Pensacola FL 32514
- Westfield Executive Park, 53 Southampton Road, Westfield MA 01085
- 628 Route 10, Whippany NJ 07981
- 55 South Park Drive, Colchester VT 05446

a part of

Severn Trent Services Inc

Analytical Methodology Summary

Volatile Organics:

Unless otherwise specified, water samples are analyzed for volatile organics by purge and trap GC/MS as specified in EPA Method 624. Drinking water samples are analyzed by EPA Method 524.2. Solid samples are analyzed for volatile organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8260B. Water samples are analyzed for volatile organics by purge and trap GC/PID and GC/ELCD as specified in EPA Methods 601 and 602. Solid samples are analyzed by GC/PID and GC/ELCD in accordance with SW-846, 3rd Edition Method 8021B.

Acid and Base/Neutral Extractable Organics:

Unless otherwise specified, water samples are analyzed for acid and/or base/neutral extractable organics by GC/MS in accordance with EPA Method 625. Solids are analyzed for acid and/or base/neutral extractable organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8270C.

GC/MS Nontarget Compound Analysis:

Analysis for nontarget compounds is conducted, upon request, in conjunction with GC/MS analyses by EPA Methods 624, 625, 8260B and 8270C. Nontarget compound analysis is conducted using a forward library search of the EPA/NIH/NBS mass spectral library of compounds at the greatest apparent concentration (10% or greater of the nearest internal standard) in each organic fraction (15 for volatile, 15 for base/neutrals and 10 for acid extractables).

Organochlorine Pesticides and PCBs:

Unless otherwise specified, water samples are analyzed for organochlorine pesticides and PCBs by dual column gas chromatography with electron capture detectors as specified in EPA Method 608. Solid samples are analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8081A for organochlorine pesticides and Method 8082 for PCBs.

Total Petroleum Hydrocarbons:

Water samples are analyzed for petroleum hydrocarbons by I.R. using EPA Method 418.1. Solid samples are prepared for analysis by soxhlet extraction consistent with the March 1990 N.J. DEP "Remedial Investigation Guide" Appendix A, page 52, and analyzed by U.S. EPA Method 418.1

Metals Analysis:

Metals analyses are performed by any of four techniques specified by a Method Code provided on each data report page, as follows:

P - Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP)

A - Flame Atomic Absorption

F - Furnace Atomic Absorption

CV - Manual Cold Vapor (Mercury)

Water samples are digested and analyzed using EPA methods provided in "Methods for Chemical Analysis of Water and Wastewater" (EPA 600/4-79-020). Solid samples are analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition); samples are digested according to Method 3050B "Acid Digestion of Soil, Sediments and Sludges."

Specific method references for ICP analyses are water Method 200.7 and solid Method 6010B. Mercury analyses are conducted by the manual cold vapor technique specified by water Method 245.1 and solid Method 7471A. Other specific Atomic Absorption method references are as follows:

Element	Water Test Method		Solid Test Method	
	Flame	Furnace	Flame	Furnace
Aluminum	202.1	202.2	7020	--
Antimony	204.1	204.2	7040	7041
Arsenic	--	206.2	--	7060
Barium	208.1	--	7080	--
Beryllium	210.1	210.2	7090	7091
Cadmium	213.1	213.2	7130	7131
Calcium	215.1	--	7140	--
Chromium, Total	218.1	218.2	7190	7191
Chromium, (+6)	218.4	218.5	7197	7195
Cobalt	219.1	219.2	7200	7201
Copper	220.1	220.2	7210	--
Iron	236.1	236.2	7380	--
Lead	239.1	239.2	7420	7421
Magnesium	242.1	--	7450	--
Manganese	243.1	243.2	7460	--
Nickel	249.1	249.2	7520	--
Potassium	258.1	--	7610	--
Selenium	--	270.2	--	7740
Silver	272.1	272.2	7760	--
Sodium	273.1	--	7770	--
Tin	283.1	283.2	7870	--
Thallium	279.1	279.2	7840	7841
Vanadium	286.1	286.2	7910	7911
Zinc	289.1	289.2	7950	--

Cyanide:

Water samples are analyzed for cyanide using EPA Method 335.3. Cyanide is determined in solid samples as specified in the EPA Contract Laboratory Program IFB dated July 1988, revised February 1989.

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Phenols:

Water samples are analyzed for total phenols using EPA Method 420.2. Total phenols are determined in solid samples by preparing the sample as outlined in the EPA Contract Laboratory Program IFB for cyanide, followed by a phenols determination using EPA Method 420.1.

Cleanup of Semivolatile Extracts:

Upon request Method 3611B Alumina Column Cleanup and/or Method 3650B Acid-Base Partition Cleanup are performed to improve detection limits by the removal of saturated hydrocarbon interferences.

Hazardous Waste Characteristics:

Samples for hazardous waste characteristics are analyzed as specified in the U.S. EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition). Specific method references are as follows:

Ignitability - Method 1020A

Corrosivity - Water pH Method 9040B
Soil pH Method 9045C

Reactivity - Chapter 7, Section 7.3.3 and 7.3.4
respectively for hydrogen cyanide and
hydrogen sulfide release

Toxicity - TCLP Method 1311

Miscellaneous Parameters:

Additional analyses performed on both aqueous and solid samples are in accordance with methods published in the following references:

- Test Methods for Evaluating Solid Wastes, SW-846 3rd Edition, November 1986.
- Standard Methods for the Examination of Water and Wastewater, 17th Edition.
- Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, 1979.

DATA REPORTING QUALIFIERS

- ND - The compound was not detected at the indicated concentration.
- J - Mass spectral data indicates the presence of a compound that meets the identification criteria. The result is less than the specified detection limit but greater than zero. The concentration given is an approximate value.
- B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
- P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
- * - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

Client ID: **SSAW-3**
Site: Klockner & Klockner

Lab Sample No: **183831**
Lab Job No: X456

Date Sampled: 02/15/00
Date Received: 02/16/00
Date Analyzed: 02/28/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: held7708.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 100.0
% Moisture: 20.2

VOLATILE ORGANICS - GC

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	Units: ug/kg (Dry Weight)		Limit Units: ug/kg	
Dichlorodifluoromethane		ND		280
Chloromethane		ND		280
Vinyl Chloride		ND		280
Bromomethane		ND		280
Chloroethane		ND		280
Trichlorofluoromethane		ND		280
1,1-Dichloroethene		ND		280
Methylene Chloride		ND		280
trans-1,2-Dichloroethene		ND		280
1,1-Dichloroethane		ND		280
cis-1,2-Dichloroethene	4100			280
Chloroform		ND		280
1,1,1-Trichloroethane		ND		280
Carbon Tetrachloride		ND		280
1,2-Dichloroethane		ND		280
Trichloroethene	5400			280
1,2-Dichloropropane		ND		280
Bromodichloromethane		ND		280
2-Chloroethyl Vinyl Ether		ND		280
cis-1,3-Dichloropropene		ND		280
trans-1,3-Dichloropropene		ND		280
1,1,2-Trichloroethane		ND		280
Tetrachloroethene		ND		280
Dibromochloromethane		ND		280
Chlorobenzene		ND		280
Bromoform		ND		280
1,1,2,2-Tetrachloroethane		ND		280
1,3-Dichlorobenzene		ND		280
1,4-Dichlorobenzene		ND		280
1,2-Dichlorobenzene		ND		280

Client ID: **SSAW-12**
Site: Klockner & Klockner

Lab Sample No: **183832**
Lab Job No: X456

Date Sampled: 02/15/00
Date Received: 02/16/00
Date Analyzed: 02/25/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: held7685.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 11.7

VOLATILE ORGANICS - GC

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Dichlorodifluoromethane	ND	140
Chloromethane	ND	140
Vinyl Chloride	ND	140
Bromomethane	ND	140
Chloroethane	ND	140
Trichlorofluoromethane	ND	140
1,1-Dichloroethene	ND	140
Methylene Chloride	ND	140
trans-1,2-Dichloroethene	ND	140
1,1-Dichloroethane	ND	140
cis-1,2-Dichloroethene	ND	140
Chloroform	ND	140
1,1,1-Trichloroethane	ND	140
Carbon Tetrachloride	ND	140
1,2-Dichloroethane	ND	140
Trichloroethene	2400	140
1,2-Dichloropropane	ND	140
Bromodichloromethane	ND	140
2-Chloroethyl Vinyl Ether	ND	140
cis-1,3-Dichloropropene	ND	140
trans-1,3-Dichloropropene	ND	140
1,1,2-Trichloroethane	ND	140
Tetrachloroethene	ND	140
Dibromochloromethane	ND	140
Chlorobenzene	ND	140
Bromoform	ND	140
1,1,2,2-Tetrachloroethane	ND	140
1,3-Dichlorobenzene	ND	140
1,4-Dichlorobenzene	ND	140
1,2-Dichlorobenzene	ND	140

Client ID: **SSAW-13**
Site: Klockner & Klockner

Lab Sample No: **183833**
Lab Job No: X456

Date Sampled: 02/15/00
Date Received: 02/16/00
Date Analyzed: 02/28/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: held7710.d

Matrix: SOIL
Level: HIGH
Sample Weight: 12 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 100.0
% Moisture: 18.0

VOLATILE ORGANICS - GC

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>	
Dichlorodifluoromethane		ND		260
Chloromethane		ND		260
Vinyl Chloride		ND		260
Bromomethane		ND		260
Chloroethane		ND		260
Trichlorofluoromethane		ND		260
1,1-Dichloroethene		ND		260
Methylene Chloride		ND		260
trans-1,2-Dichloroethene		ND		260
1,1-Dichloroethane		ND		260
cis-1,2-Dichloroethene	470			260
Chloroform		ND		260
1,1,1-Trichloroethane		ND		260
Carbon Tetrachloride		ND		260
1,2-Dichloroethane		ND		260
Trichloroethene	5300			260
1,2-Dichloropropane		ND		260
Bromodichloromethane		ND		260
2-Chloroethyl Vinyl Ether		ND		260
cis-1,3-Dichloropropene		ND		260
trans-1,3-Dichloropropene		ND		260
1,1,2-Trichloroethane		ND		260
Tetrachloroethene	8300			260
Dibromochloromethane		ND		260
Chlorobenzene		ND		260
Bromoform		ND		260
1,1,2,2-Tetrachloroethane		ND		260
1,3-Dichlorobenzene		ND		260
1,4-Dichlorobenzene		ND		260
1,2-Dichlorobenzene		ND		260

Client ID: **SSAW-14**
Site: Klockner & Klockner

Lab Sample No: **183834**
Lab Job No: X456

Date Sampled: 02/15/00
Date Received: 02/16/00
Date Analyzed: 02/28/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: held7711.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 100.0
% Moisture: 16.2

VOLATILE ORGANICS - GC

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	Units: ug/kg (Dry Weight)		Limit Units: ug/kg	
Dichlorodifluoromethane		ND		280
Chloromethane		ND		280
Vinyl Chloride		ND		280
Bromomethane		ND		280
Chloroethane		ND		280
Trichlorofluoromethane		ND		280
1,1-Dichloroethene		ND		280
Methylene Chloride		ND		280
trans-1,2-Dichloroethene		ND		280
1,1-Dichloroethane		ND		280
cis-1,2-Dichloroethene		ND		280
Chloroform		ND		280
1,1,1-Trichloroethane		ND		280
Carbon Tetrachloride		ND		280
1,2-Dichloroethane		ND		280
Trichloroethene	5500			280
1,2-Dichloropropane		ND		280
Bromodichloromethane		ND		280
2-Chloroethyl Vinyl Ether		ND		280
cis-1,3-Dichloropropene		ND		280
trans-1,3-Dichloropropene		ND		280
1,1,2-Trichloroethane		ND		280
Tetrachloroethene	4000			280
Dibromochloromethane		ND		280
Chlorobenzene		ND		280
Bromoform		ND		280
1,1,2,2-Tetrachloroethane		ND		280
1,3-Dichlorobenzene		ND		280
1,4-Dichlorobenzene		ND		280
1,2-Dichlorobenzene		ND		280

Client ID: SSAW-15
Site: Klockner & Klockner

Lab Sample No: 183835
Lab Job No: X456

Date Sampled: 02/15/00
Date Received: 02/16/00
Date Analyzed: 02/28/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: held7714.d

Matrix: SOIL
Level: HIGH
Sample Weight: 12 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 11.1

VOLATILE ORGANICS - GC

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Dichlorodifluoromethane	ND	120
Chloromethane	ND	120
Vinyl Chloride	ND	120
Bromomethane	ND	120
Chloroethane	ND	120
Trichlorofluoromethane	ND	120
1,1-Dichloroethene	ND	120
Methylene Chloride	ND	120
trans-1,2-Dichloroethene	ND	120
1,1-Dichloroethane	ND	120
cis-1,2-Dichloroethene	ND	120
Chloroform	ND	120
1,1,1-Trichloroethane	ND	120
Carbon Tetrachloride	ND	120
1,2-Dichloroethane	ND	120
Trichloroethene	360	120
1,2-Dichloropropane	ND	120
Bromodichloromethane	ND	120
2-Chloroethyl Vinyl Ether	ND	120
cis-1,3-Dichloropropene	ND	120
trans-1,3-Dichloropropene	ND	120
1,1,2-Trichloroethane	ND	120
Tetrachloroethene	ND	120
Dibromochloromethane	ND	120
Chlorobenzene	ND	120
Bromoform	ND	120
1,1,2,2-Tetrachloroethane	ND	120
1,3-Dichlorobenzene	ND	120
1,4-Dichlorobenzene	ND	120
1,2-Dichlorobenzene	ND	120

Client ID: **SSAW-16**
Site: Klockner & Klockner

Lab Sample No: **183836**
Lab Job No: X456

Date Sampled: 02/15/00
Date Received: 02/16/00
Date Analyzed: 02/28/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: held7712.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 100.0
% Moisture: 22.7

VOLATILE ORGANICS - GC

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>
Dichlorodifluoromethane	ND		290
Chloromethane	ND		290
Vinyl Chloride	ND		290
Bromomethane	ND		290
Chloroethane	ND		290
Trichlorofluoromethane	ND		290
1,1-Dichloroethene	ND		290
Methylene Chloride	ND		290
trans-1,2-Dichloroethene	ND		290
1,1-Dichloroethane	ND		290
cis-1,2-Dichloroethene	ND		290
Chloroform	ND		290
1,1,1-Trichloroethane	ND		290
Carbon Tetrachloride	ND		290
1,2-Dichloroethane	ND		290
Trichloroethene	7600		290
1,2-Dichloropropane	ND		290
Bromodichloromethane	ND		290
2-Chloroethyl Vinyl Ether	ND		290
cis-1,3-Dichloropropene	ND		290
trans-1,3-Dichloropropene	ND		290
1,1,2-Trichloroethane	ND		290
Tetrachloroethene	ND		290
Dibromochloromethane	ND		290
Chlorobenzene	ND		290
Bromoform	ND		290
1,1,2,2-Tetrachloroethane	ND		290
1,3-Dichlorobenzene	ND		290
1,4-Dichlorobenzene	ND		290
1,2-Dichlorobenzene	ND		290

301106

Client ID: SSAW-D
Site: Klockner & Klockner

Lab Sample No: 183837
Lab Job No: X456

Date Sampled: 02/15/00
Date Received: 02/16/00
Date Analyzed: 02/28/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: held7713.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 100.0
% Moisture: 22.7

VOLATILE ORGANICS - GC

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>
Dichlorodifluoromethane	ND		310
Chloromethane	ND		310
Vinyl Chloride	ND		310
Bromomethane	ND		310
Chloroethane	ND		310
Trichlorofluoromethane	ND		310
1,1-Dichloroethene	ND		310
Methylene Chloride	ND		310
trans-1,2-Dichloroethene	ND		310
1,1-Dichloroethane	ND		310
cis-1,2-Dichloroethene	ND		310
Chloroform	ND		310
1,1,1-Trichloroethane	ND		310
Carbon Tetrachloride	ND		310
1,2-Dichloroethane	ND		310
Trichloroethene	9400		310
1,2-Dichloropropane	ND		310
Bromodichloromethane	ND		310
2-Chloroethyl Vinyl Ether	ND		310
cis-1,3-Dichloropropene	ND		310
trans-1,3-Dichloropropene	ND		310
1,1,2-Trichloroethane	ND		310
Tetrachloroethene	ND		310
Dibromochloromethane	ND		310
Chlorobenzene	ND		310
Bromoform	ND		310
1,1,2,2-Tetrachloroethane	ND		310
1,3-Dichlorobenzene	ND		310
1,4-Dichlorobenzene	ND		310
1,2-Dichlorobenzene	ND		310

Client ID: SSAW-17
Site: Klockner & Klockner

Lab Sample No: 183838
Lab Job No: X456

Date Sampled: 02/15/00
Date Received: 02/16/00
Date Analyzed: 02/28/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: held7720.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 22.6

VOLATILE ORGANICS - GC

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Dichlorodifluoromethane	ND	140
Chloromethane	ND	140
Vinyl Chloride	ND	140
Bromomethane	ND	140
Chloroethane	ND	140
Trichlorofluoromethane	ND	140
1,1-Dichloroethene	ND	140
Methylene Chloride	ND	140
trans-1,2-Dichloroethene	ND	140
1,1-Dichloroethane	ND	140
cis-1,2-Dichloroethene	ND	140
Chloroform	ND	140
1,1,1-Trichloroethane	ND	140
Carbon Tetrachloride	ND	140
1,2-Dichloroethane	ND	140
Trichloroethene	ND	140
1,2-Dichloropropane	ND	140
Bromodichloromethane	ND	140
2-Chloroethyl Vinyl Ether	ND	140
cis-1,3-Dichloropropene	ND	140
trans-1,3-Dichloropropene	ND	140
1,1,2-Trichloroethane	ND	140
Tetrachloroethene	ND	140
Dibromochloromethane	ND	140
Chlorobenzene	ND	140
Bromoform	ND	140
1,1,2,2-Tetrachloroethane	ND	140
1,3-Dichlorobenzene	ND	140
1,4-Dichlorobenzene	ND	140
1,2-Dichlorobenzene	ND	140

Client ID: SSFS-3A
Site: Klockner & Klockner

Lab Sample No: 183839
Lab Job No: X456

Date Sampled: 02/15/00
Date Received: 02/16/00

Matrix: SOLID
Level: LOW
% Moisture: 37.4

METALS ANALYSIS

<u>Analyte</u>	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection <u>Limit</u>	<u>Qual</u>	<u>M</u>
Lead	841	1.7		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **SSFS-3B**
Site: Klockner & Klockner

Lab Sample No: **183840**
Lab Job No: X456

Date Sampled: 02/15/00
Date Received: 02/16/00
Date Analyzed: 02/28/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: held7721.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 21.0

VOLATILE ORGANICS - GC

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	Units: ug/kg (Dry Weight)		Limit Units: ug/kg
Dichlorodifluoromethane	ND		150
Chloromethane	ND		150
Vinyl Chloride	ND		150
Bromomethane	ND		150
Chloroethane	ND		150
Trichlorofluoromethane	ND		150
1,1-Dichloroethene	ND		150
Methylene Chloride	ND		150
trans-1,2-Dichloroethene	ND		150
1,1-Dichloroethane	ND		150
cis-1,2-Dichloroethene	ND		150
Chloroform	ND		150
1,1,1-Trichloroethane	ND		150
Carbon Tetrachloride	ND		150
1,2-Dichloroethane	ND		150
Trichloroethene	710		150
1,2-Dichloropropane	ND		150
Bromodichloromethane	ND		150
2-Chloroethyl Vinyl Ether	ND		150
cis-1,3-Dichloropropene	ND		150
trans-1,3-Dichloropropene	ND		150
1,1,2-Trichloroethane	ND		150
Tetrachloroethene	ND		150
Dibromochloromethane	ND		150
Chlorobenzene	ND		150
Bromoform	ND		150
1,1,2,2-Tetrachloroethane	ND		150
1,3-Dichlorobenzene	ND		150
1,4-Dichlorobenzene	ND		150
1,2-Dichlorobenzene	ND		150

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Client ID: SSFS-3C
Site: Klockner & Klockner

Lab Sample No: 183841
Lab Job No: X456

Date Sampled: 02/15/00
Date Received: 02/16/00

Matrix: SOLID
Level: LOW
% Moisture: 18.1

METALS ANALYSIS

<u>Analyte</u>	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection <u>Limit</u>	<u>Qual</u>	<u>M</u>
Lead	373	1.3		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

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Client ID: FBA0200
Site: Klockner & Klockner

Lab Sample No: 183842
Lab Job No: X456

Date Sampled: 02/15/00
Date Received: 02/16/00
Date Analyzed: 02/25/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: held7678.d

Matrix: WATER
Level: MED
Purge Volume: 5.0 ml
Final Volume: 0.0 mL
Dilution Factor: 1.0

VOLATILE ORGANICS - GC

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Quantitation</u>
		<u>Limit</u> <u>Units: ug/l</u>
Dichlorodifluoromethane	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	1.0
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
1,1-Dichloroethene	ND	1.0
Methylene Chloride	ND	1.0
trans-1,2-Dichloroethene	ND	1.0
1,1-Dichloroethane	ND	1.0
cis-1,2-Dichloroethene	ND	1.0
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	1.0
Carbon Tetrachloride	ND	1.0
1,2-Dichloroethane	ND	1.0
Trichloroethene	ND	1.0
1,2-Dichloropropane	ND	1.0
Bromodichloromethane	ND	1.0
2-Chloroethyl Vinyl Ether	ND	1.0
cis-1,3-Dichloropropene	ND	1.0
trans-1,3-Dichloropropene	ND	1.0
1,1,2-Trichloroethane	ND	1.0
Tetrachloroethene	ND	1.0
Dibromochloromethane	ND	1.0
Chlorobenzene	ND	1.0
Bromoform	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
1,3-Dichlorobenzene	ND	1.0
1,4-Dichlorobenzene	ND	1.0
1,2-Dichlorobenzene	ND	1.0

Client ID: FBA0200
Site: Klockner & Klockner

Lab Sample No: 183842
Lab Job No: X456

Date Sampled: 02/15/00
Date Received: 02/16/00

Matrix: WATER
Level: LOW

METALS ANALYSIS

<u>Analyte</u>	Analytical Result <u>Units: ug/l</u>	Instrument Detection <u>Limit</u>	<u>Qual</u>	<u>M</u>
Lead	ND	2.1		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: TBA0200
Site: Klockner & Klockner

Lab Sample No: 183843
Lab Job No: X456

Date Sampled: 02/15/00
Date Received: 02/16/00
Date Analyzed: 02/29/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: held7722.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0.0

VOLATILE ORGANICS - GC

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Dichlorodifluoromethane	ND	120
Chloromethane	ND	120
Vinyl Chloride	ND	120
Bromomethane	ND	120
Chloroethane	ND	120
Trichlorofluoromethane	ND	120
1,1-Dichloroethene	ND	120
Methylene Chloride	ND	120
trans-1,2-Dichloroethene	ND	120
1,1-Dichloroethane	ND	120
cis-1,2-Dichloroethene	ND	120
Chloroform	ND	120
1,1,1-Trichloroethane	ND	120
Carbon Tetrachloride	ND	120
1,2-Dichloroethane	ND	120
Trichloroethene	ND	120
1,2-Dichloropropane	ND	120
Bromodichloromethane	ND	120
2-Chloroethyl Vinyl Ether	ND	120
cis-1,3-Dichloropropene	ND	120
trans-1,3-Dichloropropene	ND	120
1,1,2-Trichloroethane	ND	120
Tetrachloroethene	ND	120
Dibromochloromethane	ND	120
Chlorobenzene	ND	120
Bromoform	ND	120
1,1,2,2-Tetrachloroethane	ND	120
1,3-Dichlorobenzene	ND	120
1,4-Dichlorobenzene	ND	120
1,2-Dichlorobenzene	ND	120

ATTACHMENT 3

ANALYTICAL DATA SHEETS
FEBRUARY 15, 2000 – BUILDING 13

301117

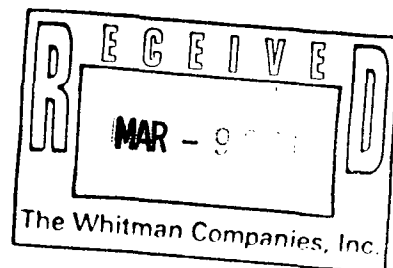


STL Envirotech
777 New Durham Road
Edison, NJ 08817
Tel: (732) 549-3900
Fax: (732) 549-3679
www.stl-inc.com

March 06, 2000

The Whitman Companies, Inc.
44 West Ferris Street
East Brunswick, NJ 08816

Attention: Mr. Michael Metlitz



Re: Job No. X455 - Klockner & Klockner

Dear Mr. Metlitz:

Enclosed are the results you requested for the following sample(s) received at our laboratory on February 16, 2000:

<u>Lab No.</u>	<u>Client ID</u>	<u>Analysis Required</u>
183826	SSFA-1	Method 8021 - Purgeable Halocarbons
183827	SSFA-D	Method 8021 - Purgeable Halocarbons
183828	SSFA-4A	Method 8021 - Purgeable Halocarbons
183829	SSFA-4B	Method 8021 - Purgeable Halocarbons
183830	SSFA-4C	Method 8021 - Purgeable Halocarbons

If you have any questions please contact your Project Manager, Brian Reddy, at (732) 549-3900.

Very truly yours,

Michael J. Urban
Laboratory Manager

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Other Laboratory Locations:

- 149 Rangeway Road, North Billerica MA 01862
- 16203 Park Row, Suite 110, Houston TX 77084
- 200 Monroe Turnpike, Monroe CT 06468
- 120 Southcenter Court, Suite 300, Morrisville NC 27560
- 315 Fullerton Avenue, Newburgh NY 12550

- 11 East Olive Road, Pensacola FL 32514
- Westfield Executive Park, 53 Southampton Road, Westfield MA 01085
- 628 Route 10, Whippany NJ 07981
- 55 South Park Drive, Colchester VT 05446

a part of
Severn Trent Services Inc

Analytical Methodology Summary

Volatile Organics:

Unless otherwise specified, water samples are analyzed for volatile organics by purge and trap GC/MS as specified in EPA Method 624. Drinking water samples are analyzed by EPA Method 524.2. Solid samples are analyzed for volatile organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8260B. Water samples are analyzed for volatile organics by purge and trap GC/PID and GC/ELCD as specified in EPA Methods 601 and 602. Solid samples are analyzed by GC/PID and GC/ELCD in accordance with SW-846, 3rd Edition Method 8021B.

Acid and Base/Neutral Extractable Organics:

Unless otherwise specified, water samples are analyzed for acid and/or base/neutral extractable organics by GC/MS in accordance with EPA Method 625. Solids are analyzed for acid and/or base/neutral extractable organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8270C.

GC/MS Nontarget Compound Analysis:

Analysis for nontarget compounds is conducted, upon request, in conjunction with GC/MS analyses by EPA Methods 624, 625, 8260B and 8270C. Nontarget compound analysis is conducted using a forward library search of the EPA/NIH/NBS mass spectral library of compounds at the greatest apparent concentration (10% or greater of the nearest internal standard) in each organic fraction (15 for volatile, 15 for base/neutrals and 10 for acid extractables).

Organochlorine Pesticides and PCBs:

Unless otherwise specified, water samples are analyzed for organochlorine pesticides and PCBs by dual column gas chromatography with electron capture detectors as specified in EPA Method 608. Solid samples are analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8081A for organochlorine pesticides and Method 8082 for PCBs.

Total Petroleum Hydrocarbons:

Water samples are analyzed for petroleum hydrocarbons by I.R. using EPA Method 418.1. Solid samples are prepared for analysis by soxhlet extraction consistent with the March 1990 N.J. DEP "Remedial Investigation Guide" Appendix A, page 52, and analyzed by U.S. EPA Method 418.1

Metals Analysis:

Metals analyses are performed by any of four techniques specified by a Method Code provided on each data report page, as follows:

P - Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP)

A - Flame Atomic Absorption

F - Furnace Atomic Absorption

CV - Manual Cold Vapor (Mercury)

Water samples are digested and analyzed using EPA methods provided in "Methods for Chemical Analysis of Water and Wastewater" (EPA 600/4-79-020). Solid samples are analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition); samples are digested according to Method 3050B "Acid Digestion of Soil, Sediments and Sludges."

Specific method references for ICP analyses are water Method 200.7 and solid Method 6010B. Mercury analyses are conducted by the manual cold vapor technique specified by water Method 245.1 and solid Method 7471A. Other specific Atomic Absorption method references are as follows:

Element	Water Test Method		Solid Test Method	
	Flame	Furnace	Flame	Furnace
Aluminum	202.1	202.2	7020	--
Antimony	204.1	204.2	7040	7041
Arsenic	--	206.2	--	7060
Barium	208.1	--	7080	--
Beryllium	210.1	210.2	7090	7091
Cadmium	213.1	213.2	7130	7131
Calcium	215.1	--	7140	--
Chromium, Total	218.1	218.2	7190	7191
Chromium, (+6)	218.4	218.5	7197	7195
Cobalt	219.1	219.2	7200	7201
Copper	220.1	220.2	7210	--
Iron	236.1	236.2	7380	--
Lead	239.1	239.2	7420	7421
Magnesium	242.1	--	7450	--
Manganese	243.1	243.2	7460	--
Nickel	249.1	249.2	7520	--
Potassium	258.1	--	7610	--
Selenium	--	270.2	--	7740
Silver	272.1	272.2	7760	--
Sodium	273.1	--	7770	--
Tin	283.1	283.2	7870	--
Thallium	279.1	279.2	7840	7841
Vanadium	286.1	286.2	7910	7911
Zinc	289.1	289.2	7950	--

Cyanide:

Water samples are analyzed for cyanide using EPA Method 335.3. Cyanide is determined in solid samples as specified in the EPA Contract Laboratory Program IFB dated July 1988, revised February 1989.

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Phenols:

Water samples are analyzed for total phenols using EPA Method 420.2. Total phenols are determined in solid samples by preparing the sample as outlined in the EPA Contract Laboratory Program IFB for cyanide, followed by a phenols determination using EPA Method 420.1.

Cleanup of Semivolatile Extracts:

Upon request Method 3611B Alumina Column Cleanup and/or Method 3650B Acid-Base Partition Cleanup are performed to improve detection limits by the removal of saturated hydrocarbon interferences.

Hazardous Waste Characteristics:

Samples for hazardous waste characteristics are analyzed as specified in the U.S. EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition). Specific method references are as follows:

- Ignitability - Method 1020A
- Corrosivity - Water pH Method 9040B
Soil pH Method 9045C
- Reactivity - Chapter 7, Section 7.3.3 and 7.3.4
respectively for hydrogen cyanide and
hydrogen sulfide release
- Toxicity - TCLP Method 1311

Miscellaneous Parameters:

Additional analyses performed on both aqueous and solid samples are in accordance with methods published in the following references:

- Test Methods for Evaluating Solid Wastes, SW-846 3rd Edition, November 1986.
- Standard Methods for the Examination of Water and Wastewater, 17th Edition.
- Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, 1979.

DATA REPORTING QUALIFIERS

- ND - The compound was not detected at the indicated concentration.
- B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
- P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
- * - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

Client ID: SSFA-1
Site: Klockner & Klockner

Lab Sample No: 183826
Lab Job No: X455

Date Sampled: 02/15/00
Date Received: 02/16/00
Date Analyzed: 02/25/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: held7679.d

Matrix: SOIL
Level: HIGH
Sample Weight: 12 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 4.0

VOLATILE ORGANICS - GC

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Dichlorodifluoromethane	ND	110
Chloromethane	ND	110
Vinyl Chloride	ND	110
Bromomethane	ND	110
Chloroethane	ND	110
Trichlorofluoromethane	ND	110
1,1-Dichloroethene	ND	110
Methylene Chloride	ND	110
trans-1,2-Dichloroethene	ND	110
1,1-Dichloroethane	ND	110
cis-1,2-Dichloroethene	ND	110
Chloroform	ND	110
1,1,1-Trichloroethane	ND	110
Carbon Tetrachloride	ND	110
1,2-Dichloroethane	ND	110
Trichloroethene	ND	110
1,2-Dichloropropane	ND	110
Bromodichloromethane	ND	110
2-Chloroethyl Vinyl Ether	ND	110
cis-1,3-Dichloropropene	ND	110
trans-1,3-Dichloropropene	ND	110
1,1,2-Trichloroethane	ND	110
Tetrachloroethene	ND	110
Dibromochloromethane	ND	110
Chlorobenzene	ND	110
Bromoform	ND	110
1,1,2,2-Tetrachloroethane	ND	110
1,3-Dichlorobenzene	ND	110
1,4-Dichlorobenzene	ND	110
1,2-Dichlorobenzene	ND	110

Client ID: SSFA-D
Site: Klockner & Klockner

Lab Sample No: 183827
Lab Job No: X455

Date Sampled: 02/15/00
Date Received: 02/16/00
Date Analyzed: 02/25/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: held7680.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 20.7

VOLATILE ORGANICS - GC

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Dichlorodifluoromethane	ND	140
Chloromethane	ND	140
Vinyl Chloride	ND	140
Bromomethane	ND	140
Chloroethane	ND	140
Trichlorofluoromethane	ND	140
1,1-Dichloroethene	ND	140
Methylene Chloride	ND	140
trans-1,2-Dichloroethene	ND	140
1,1-Dichloroethane	ND	140
cis-1,2-Dichloroethene	ND	140
Chloroform	ND	140
1,1,1-Trichloroethane	ND	140
Carbon Tetrachloride	ND	140
1,2-Dichloroethane	ND	140
Trichloroethene	ND	140
1,2-Dichloropropane	ND	140
Bromodichloromethane	ND	140
2-Chloroethyl Vinyl Ether	ND	140
cis-1,3-Dichloropropene	ND	140
trans-1,3-Dichloropropene	ND	140
1,1,2-Trichloroethane	ND	140
Tetrachloroethene	2600	140
Dibromochloromethane	ND	140
Chlorobenzene	ND	140
Bromoform	ND	140
1,1,2,2-Tetrachloroethane	ND	140
1,3-Dichlorobenzene	ND	140
1,4-Dichlorobenzene	ND	140
1,2-Dichlorobenzene	ND	140

Client ID: **SSFA-4A**
Site: Klockner & Klockner

Lab Sample No: **183828**
Lab Job No: X455

Date Sampled: 02/15/00
Date Received: 02/16/00
Date Analyzed: 02/25/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: held7681.d

Matrix: SOIL
Level: HIGH
Sample Weight: 11 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 7.2

VOLATILE ORGANICS - GC

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Dichlorodifluoromethane	ND	120
Chloromethane	ND	120
Vinyl Chloride	ND	120
Bromomethane	ND	120
Chloroethane	ND	120
Trichlorofluoromethane	ND	120
1,1-Dichloroethene	ND	120
Methylene Chloride	ND	120
trans-1,2-Dichloroethene	ND	120
1,1-Dichloroethane	ND	120
cis-1,2-Dichloroethene	ND	120
Chloroform	ND	120
1,1,1-Trichloroethane	ND	120
Carbon Tetrachloride	ND	120
1,2-Dichloroethane	ND	120
Trichloroethene	ND	120
1,2-Dichloropropane	ND	120
Bromodichloromethane	ND	120
2-Chloroethyl Vinyl Ether	ND	120
cis-1,3-Dichloropropene	ND	120
trans-1,3-Dichloropropene	ND	120
1,1,2-Trichloroethane	ND	120
Tetrachloroethene	ND	120
Dibromochloromethane	ND	120
Chlorobenzene	ND	120
Bromoform	ND	120
1,1,2,2-Tetrachloroethane	ND	120
1,3-Dichlorobenzene	ND	120
1,4-Dichlorobenzene	ND	120
1,2-Dichlorobenzene	ND	120

Client ID: SSFA-4B
Site: Klockner & Klockner

Lab Sample No: 183829
Lab Job No: X455

Date Sampled: 02/15/00
Date Received: 02/16/00
Date Analyzed: 02/25/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: held7682.d

Matrix: SOIL
Level: HIGH
Sample Weight: 12 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 6.9

VOLATILE ORGANICS - GC

<u>Parameter</u>	Analytical Results	Quantitation
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>	<u>Limit</u> <u>Units: ug/kg</u>
Dichlorodifluoromethane	ND	120
Chloromethane	ND	120
Vinyl Chloride	ND	120
Bromomethane	ND	120
Chloroethane	ND	120
Trichlorofluoromethane	ND	120
1,1-Dichloroethene	ND	120
Methylene Chloride	ND	120
trans-1,2-Dichloroethene	ND	120
1,1-Dichloroethane	ND	120
cis-1,2-Dichloroethene	ND	120
Chloroform	ND	120
1,1,1-Trichloroethane	ND	120
Carbon Tetrachloride	ND	120
1,2-Dichloroethane	ND	120
Trichloroethene	ND	120
1,2-Dichloropropane	ND	120
Bromodichloromethane	ND	120
2-Chloroethyl Vinyl Ether	ND	120
cis-1,3-Dichloropropene	ND	120
trans-1,3-Dichloropropene	ND	120
1,1,2-Trichloroethane	ND	120
Tetrachloroethene	ND	120
Dibromochloromethane	ND	120
Chlorobenzene	ND	120
Bromoform	ND	120
1,1,2,2-Tetrachloroethane	ND	120
1,3-Dichlorobenzene	ND	120
1,4-Dichlorobenzene	ND	120
1,2-Dichlorobenzene	ND	120

Client ID: **SSFA-4C**
Site: Klockner & Klockner

Lab Sample No: **183830**
Lab Job No: X455

Date Sampled: 02/15/00
Date Received: 02/16/00
Date Analyzed: 02/25/00
GC Column: DB624
Instrument ID: VOAGC2.i
Lab File ID: held7683.d

Matrix: SOIL
Level: HIGH
Sample Weight: 12 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 14.1

VOLATILE ORGANICS - GC

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>
Dichlorodifluoromethane	ND		130
Chloromethane	ND		130
Vinyl Chloride	ND		130
Bromomethane	ND		130
Chloroethane	ND		130
Trichlorofluoromethane	ND		130
1,1-Dichloroethene	ND		130
Methylene Chloride	ND		130
trans-1,2-Dichloroethene	ND		130
1,1-Dichloroethane	ND		130
cis-1,2-Dichloroethene	ND		130
Chloroform	ND		130
1,1,1-Trichloroethane	ND		130
Carbon Tetrachloride	ND		130
1,2-Dichloroethane	ND		130
Trichloroethene	ND		130
1,2-Dichloropropane	ND		130
Bromodichloromethane	ND		130
2-Chloroethyl Vinyl Ether	ND		130
cis-1,3-Dichloropropene	ND		130
trans-1,3-Dichloropropene	ND		130
1,1,2-Trichloroethane	ND		130
Tetrachloroethene	150		130
Dibromochloromethane	ND		130
Chlorobenzene	ND		130
Bromoform	ND		130
1,1,2,2-Tetrachloroethane	ND		130
1,3-Dichlorobenzene	ND		130
1,4-Dichlorobenzene	ND		130
1,2-Dichlorobenzene	ND		130

